

CURRICULUM VITAE
Mark Evans Dunlap, M.D.
Updated April 2018

1) Personal data

Title and Address: Professor of Medicine, Physiology, and Biophysics
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Education

1972 Oak Ridge High School, Oak Ridge, Tennessee
Also attended Lahore American School, Lahore, Pakistan
1976 BA-Math, Oberlin College, Oberlin, Ohio; also attended Brown University
1982 MD, University of Tennessee College of Medicine, Memphis, Tennessee

Internships, Residencies, Fellowships

1982-1985 Residency, Department of Internal Medicine, Medical College of Virginia,
Richmond, Virginia
1985-1986 Cardiovascular Fellowship, Medical College of Virginia, Richmond, Virginia
1987-1989 Research Fellowship, Hunter Holmes McGuire VA Medical Center and
Medical College of Virginia, Richmond, Virginia

Specialized training

2000 American Heart Association 10-day Seminar on the Epidemiology and Prevention
of Cardiovascular Disease, Tahoe City, California
2003 Randomized Clinical Trials Course
Department of Veterans Affairs Cooperative Studies Program, Chicago, IL
2008 Essentials of Leadership Excellence, MetroHealth Medical Center, Cleveland, OH

2) Professional Appointments

Academic Appointments

1987-1989 Instructor, Department of Medicine, Medical College of Virginia, Richmond, Virginia
1989-1997 Assistant Professor of Medicine, Case Western Reserve University, Cleveland, OH
1995-1997 Assistant Professor of Physiology and Biophysics
Case Western Reserve University
1997-2009 Associate Professor of Medicine, Physiology and Biophysics, CWRU
2009-present Professor of Medicine, Case Western Reserve University
2014-present Professor of Physiology and Biophysics, Case Western Reserve University

Hospital Appointments

1987-1989 Associate Investigator, Hunter Holmes McGuire VA Medical Center
Richmond, Virginia
1990-1993 Research Associate, VA Medical Center, Cleveland, Ohio

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| 1995-1999 | Clinical Investigator, Louis Stokes VA Medical Center, Cleveland, Ohio |
| 1994-2006 | Director, Heart Failure Program, Louis Stokes VA Medical Center, Cleveland, Oh |
| 2000 | Acting Chief, Cardiology Section, Louis Stokes VA Medical Center, Cleveland, Oh |
| 1998-2006 | Associate Chief, Cardiology Section, Louis Stokes VA Medical Center Cleveland, Ohio |
| 2006-present | Director, HF Section, Heart and Vascular Center, The MetroHealth System, Cleveland, OH |
| 2012-2013 | Interim Co-Director, Heart and Vascular Center, The MetroHealth System, Cleveland, OH |
| 2012-2013 | Director, Cardiovascular Fellowship Program, The MetroHealth System Cleveland, OH |

3) Licensure and Board Certification

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| 1985 | American Board of Internal Medicine |
| 1987 | American Board of Internal Medicine, Cardiovascular Subspecialty Boards |
| 1989 | Ohio State Board of Medicine |

4) Membership in Professional Societies

Fellow, Council on Basic Cardiovascular Sciences (AHA)
Fellow, Council on Clinical Cardiology (AHA)
Fellow, Council on High Blood Pressure Research (AHA)
Fellow, American College of Cardiology
Heart Failure Society of America

Prior memberships:
Central Society for Clinical Research
American Federation for Medical Research
American Physiological Society
Neural Control and Autonomic Regulation Section (APS)
Society of Heart Brain Medicine (past President)

5) Honors and Awards

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| May 1982 | IMHOTEP Society - Leadership Recognition University of Tennessee Center for the Health Sciences |
| June 1982 | Distinguished Student Service Award University of Tennessee Center for the Health Sciences |
| November 1992 | Finalist, Melvin L. Marcus Young Investigator Award in Cardiovascular Integrated Physiology, American Heart Association |
| September 1998 | Federal Employee Recognition Award, Cleveland Federal Executive Board |
| November 2002 | Department of Veterans Affairs Certificate of Appreciation Award, Advanced Clinic Access Initiative |
| June 2008 | Department of Medicine Teaching Excellence Award Honorable Mention MetroHealth Medical Center, Cleveland, OH |
| January 2009 | Best Research Clinical Paper, Frontiers of Cardiology, Winter Park, Colorado |
| 2011-2015 | Best Doctors, Cleveland Magazine |
| 2017 | Top Communicator Award, The MetroHealth System, Cleveland, OH |

6) Professional Service

Study Sections

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| 1995 | NIH, Experimental Cardiovascular Sciences Study Section (ad hoc) |
| 1997 | NIH, Respiratory and Applied Physiology Study Section (ad hoc) |
| 1996-1999 | Member, Clinical and Integrative Cardiovascular Physiology and Pathophysiology II Study Section, American Heart Association National Center |
| 1999 | NIH, CVA Cardiovascular Study Section (ad hoc) |
| 2002-2005 | Member, Health Services Research Career Development Awards Study Section, Department of Veterans Affairs |
| 2004-2006 | Member, Cardiology B Merit Review Study Section Department of Veterans Affairs |
| 2005-2006 | Chairman, Cardiology B Merit Review Study Section Department of Veterans Affairs |

Editorial and Review Boards

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|--------------|---|
| 1991-92 | Abstract reviewer, American Heart Association Scientific Sessions |
| 1995-2007 | Abstract reviewer, American Heart Association Scientific Sessions |
| 2012-2017 | Abstract reviewer, American Heart Association Scientific Sessions |
| 1996-1999 | Journal of Applied Physiology |
| 1999-2004 | American Journal Physiology: Heart & Circulatory Physiology |
| 2003 | Jay N. Cohn New Investigator Award Review Committee, Heart Failure Society of America |
| 2001-2009 | Curriculum Editor, National Heart Failure Training (N-HeFT) Program Case Western Reserve University, Cleveland, OH |
| 2004-2011 | Journal of Cardiac Failure, Editorial Board |
| 2005-2012 | Abstract reviewer, American College of Cardiology Scientific Sessions |
| 2006 | Chairman, Poster Judging Committee, Ohio-ACC 16 th Annual Meeting, Columbus, Ohio |
| 2006-2007 | Review Board, HeartLine, Communication on Heart Failure, theHeart.org from WebMD |
| 2015-current | Member, Publications and Presentations Committee (PPC) NIH sponsored Heart Failure Research Network |

Ad hoc Reviewer

American Heart Journal
American Journal of Physiology
American Journal of Respiratory and Critical Care Medicine
Autonomic Neuroscience: Basic and Clinical
Cardiovascular Research
Circulation
Circulation: Heart Failure
Circulation Research
Hypertension
Journal of the American College of Cardiology
Journal of Applied Physiology
Journal of the Autonomic Nervous System
Journal of Cardiac Failure
Journal of Cardiology
Journal of Cardiovascular Pharmacology
Journal of Laboratory and Clinical Medicine
Journal of Molecular and Cellular Cardiology
Journal of Negative Results in Biomedicine

Medicine and Science in Sports and Exercise
Experimental Physiology
European Heart Journal

Other

2005-2014 Member, Planning Committee, Carl J. Wiggers Memorial Lecture, Ohio Chapter, American College of Cardiology
2006-2009 Chairman, Planning Committee, Carl J. Wiggers Memorial Lecture, Ohio Chapter, American College of Cardiology
2012-2017 Research Reception Planning Committee, Cleveland Metro Division of the American Heart Association

Advisory Groups

1997-2004 Steering Committee, PEACE Study (sponsored by NHLBI)
1998-2003 US National Leader and Vice Chair of the US Investigator Committee, CHARM program
2000-2003 International Steering Committee, CHARM program
2000-2004 Clinical Chairman, CHF-Quality Enhancement Research Initiative (QUERI)
Steering Committee, Department of Veterans Affairs
2001-2006 Astra Zeneca Advisory Board
2002 Coalition for the Advancement of Cardiovascular Health (COACH), National Steering Committee
2002-2003 Bristol-Myers Squibb Advisory Board
2002-2004 Program Committee, Heart Failure Society of America
2002-2005 Endorsement Committee, Heart Failure Society of America
2002-2006 Advanced Clinic Access National Coach, Department of Veterans Affairs
2002-2008 Clinical Endpoint Committee, HF-ACTION trial (sponsored by NHLBI)
2003-2005 Innovative Medical Practices Advancing Cardiovascular Therapy (IMPACT) Program Faculty
2004-2006 Chairman, Endpoints Committee, Heart Failure Home Care Trial (sponsored by Centers for Medicare and Medicaid Services)
2005-2011 Member, Care Standards / Quality of Care Committee, Heart Failure Society of America
2005-2013 US National Leader, Darbepoetin alfa in Heart Failure Trial (RED-HF)
2008-2013 Chair, US National Leadership, Darbepoetin alfa in Heart Failure Trial (RED-HF)
2006 Tolvaptan Scientific Advisory Board Meeting, Miami, Florida
2006 Cell Therapy Network Grant, Mark Penn, MD, PI - External Reviewer Cleveland Clinic Foundation
2006 Advisory Board on BiDil, NitroMed, Atlanta, Georgia
2006 Advisory Board on Nibivolol, New York, New York
2006 Advisory Board on Lovenox, Sanofi Aventis, Charleston, South Carolina
2006, 2007, 2008 Invited Member, International Heart Failure Biomarker Research Workshop Cannes, France
2006-2011 Member, Steering Committee, ASCEND-HF Trial
2007 Nebivolol Executive Heart Failure Advisory Board, New York, New York
2007 Advisory Board on BiDil, NitroMed, Washington DC
2007 CME Activity Director: "Acute Decompensated Heart Failure in the ED and Beyond" MetroHealth Medical Center/Case Western Reserve University
2007 Senior National Advisory Board on Crestor, Chicago, IL
2007-2010 Member, Clinical Events Committee: "PREVENT HF: PREVENTion of Heart Failure events with impedance cardiography testing"
2007-2009 President, Society for Heart-Brain Medicine (SHBM)
2008-2012 Chair, Better Health Greater Cleveland Heart Failure Sub-Committee, MetroHealth

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| 2008-2015 | Member, Clinical Advisory Committee, Robert Wood Johnson Foundation, The MetroHealth System |
| 2009 | Advisory Board on Hyponatremia, Otsuka Pharmaceuticals, McLean, VA |
| 2010-2012 | MetroHealth Physicians Leadership Academy MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2012 | Member, Scientific Advisory Board for Renal Denervation, Medtronic, Inc. |
| 2012 | Member, Scientific Advisory Board, Otsuka Pharmaceuticals, Inc., Newark, NJ |
| 2014 | Member, Clinical Events Committee, PreSERVE AMI study, a Prospective Randomized Double Blinded Placebo Controlled Phase II Trial of Intra-coronary Infusion of AMR-001, a Bone Marrow Derived Autologous CD34+ Selected Cell Product, in Patients with Persistent Left Ventricular Dysfunction Following Acute ST Elevation Myocardial Infarction |
| 2014 | Member, Heart Failure Scientific Advisory Board, Relypsa (Patiromer), Washington, DC |
| 2017-2018 | Chair, Data Safety Monitoring Board for the LIPP study, “ L ifestyle I ntervention in P reparation for P regnancy program”, Patrick Catalano, MD, PI. Sponsor: NIH |
| 2017-current | Member and U.S. Representative, Steering Committee for ADVENT-HF : A Multi-Centre, Randomized Study to Assess the Effects of AD aptive Servo VENT ilation on Survival and Frequency of Cardiovascular Hospital Admissions in Patients with H eat F ailure and S leep A pnea |

7) Hospital and University Service Activities

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| 1990-1994 | Quality Management Committee, Department of Medicine VA Medical Center, Cleveland, Ohio |
| 1990-1994 | Peer Review Committee, Department of Medicine, VA Medical Center, Cleveland, Ohio |
| 1990-1997 | Cardiology Fellowship Evaluation Committee, University Hospitals of Cleveland and Case Western Reserve University |
| 1990-1997 | Institutional Animal Care and Use Committee, VA Medical Center, Cleveland, Ohio |
| 1994-1997 | Chair, Institutional Animal Care and Use Committee VA Medical Center, Cleveland, Ohio |
| 1995-1999 | Research and Development Committee, VA Medical Center, Cleveland, Ohio |
| 1998-1999 | Chair, Research and Development Committee, VA Medical Center, Cleveland, Ohio |
| 1996-1998 | Co-Chair, Computerized Patient Record System Committee VA Medical Center, Cleveland, Ohio |
| 1998-2006 | Co-Chair, Clinical Informatics Committee, VA Medical Center, Cleveland, Ohio |
| 1999-2006 | Chairman, Cardiology Advanced Clinic Access Initiative VA Medical Center, Cleveland, Ohio |
| 2002-2007 | School of Medicine Representative, Faculty Senate Committee on Information Resources Case Western Reserve University |
| 2005-2007 | Chairman, Faculty Senate Committee on Information Resources Case Western Reserve University |
| 2004-2006 | Member, Clinical Research Center Advisory Committee Case Western Reserve University |
| 2006-present | Member, Scientific Review Committee, Clinical Research Unit MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2008-2012 | Chairman, Scientific Review Committee, Clinical Research Unit MetroHealth Campus of Case Western Reserve University, Cleveland, OH |

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| 2009-2012 | Member, Committee on Appointment, Promotions, and Tenure MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2010-2011 | Chair, Documentation and Consultation Process Task Force, Heart and Vascular Center MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2010-2011 | Member, Telemetry Task Force, Heart and Vascular Center MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2011-2013 | Chair, Heart and Vascular Section American Heart Associate Heart Walk MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2012-2014 | Co-Chair, David S. Rosenbaum Endowment Committee MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2012-2013 | Member, Search Committee, Heart and Vascular Center Director MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2012-2013 | Director, Cardiovascular Fellowship Training Program MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2012-2015 | Member, Cardiology Grand Rounds Selection Committee MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2014-2015 | Leadership Rounding Team The MetroHealth System, Cleveland, OH |
| 2014 | Member, Planning Committee, Matthew N. Levy Symposium Department of Physiology and Biophysics, CWRU, Cleveland, OH |
| 2013-present | Member, Cardiovascular Fellowship Research Committee, The MetroHealth System, MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2013-present | Director, Heart and Vascular Clinical Trials Unit, The MetroHealth System, MetroHealth Campus of Case Western Reserve University, Cleveland, OH |
| 2013-current | Associate Director of Clinical Informatics, Heart and Vascular Center The MetroHealth System, Cleveland, OH |
| 2015-current | Chair, StorySLAM Committee, Heart and Vascular Center The MetroHealth System, Cleveland, OH |
| 2017-current | Co-Chair, CHF Care Standards Committee The MetroHealth System, Cleveland, OH |
| 2017-current | Chair, Data Safety and Monitoring Board “Lifestyle Intervention in Preparation for Pregnancy (LIPP) trial” Patrick Catalano, MD and John Kirwan PhD, Co-Investigators National Institute of Child Health & Human Development |

8) Teaching Activities

Teaching

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| 1989-94 | Sheep Heart Anatomy Lab |
| 1989-95 | Cardiovascular Systems and Dynamics |
| 1990 | Case Oriented Problem Solving |
| 1990-2000 | Homeostasis I teaching |
| 1993-2005 | Introduction to Biostatistics, Cardiology Fellows' Seminar |
| 1990, 1994 | Physical Diagnosis |
| 1995-96 | Physiology 516—Excitation Contraction Coupling seminars |
| 1995-2002; 2006 | Physiology 514—Introduction to the Cardiovascular System |
| 1996-99 | Physiology 512—Methods in Cardiovascular Research teaching |
| 1997-2002 | Physiology 518—Integrative Approaches to Cardiovascular Research |
| 1999 | Physiology 440—Cardiovascular responses to exercise |
| 1995-97 | Physiology Health Careers Enhancement Program for Minority Students |

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| 1994-96 | Biomedical Engineering Thesis Advisory Committee (Alison Graves) |
| 1994-97 | Biomedical Engineering Thesis Advisory Committee (Sriram Ramini) |
| 1995-96 | Sponsor for Biomedical Engineering Senior Project for Kyle Salem |
| 1995-98 | Sponsor for laboratory rotation for Systems Physiology students |
| 1996-2000 | Ph.D. Thesis Advisor, Physiology and Biophysics, Steven Bibeovski |
| 1996-2001 | Chairman, Physiology and Biophysics Ph.D. Thesis Advisory Committee (Linda Barrett-Stull) |
| 1997-2001 | Drug Action and Biodisposition (DAB Committee): Hypertension and Congestive Heart Failure (Developed Curriculum) |
| 1997-98 | Physiology and Biophysics Thesis Advisory Committee (Krista Kivilo) |
| 1997-1999 | Physiology and Biophysics Thesis Advisory Committee (Daniel Zakhary) |
| 1997-2000 | Physiology and Biophysics Thesis Advisory Committee (David Kline) |
| 2000-2003 | Physiology and Biophysics Thesis Advisory Committee (Theresa Fagan) |
| 2004 | Fundamentals of Therapeutic Agents Cardiovascular Pharmacology Lab, 1 st yr Medical Student class |
| 2004-2005 | Physiology and Biophysics Thesis Advisory Committee (Michelle Riccardi) |
| 2005 | Nursing Thesis Advisory Committee (Su-Er Guo) |
| 2005 | Review Committee, Lepow Research Day, CWRU |
| 2005 | Fundamentals of Therapeutic Agents: Heart Failure, CWRU |
| 2005-2009 | Co-Chair, Cardiology Curriculum Design Block 4, CWRU (including introductory lectures) |
| 2007 | Medical Student group teaching, case presentations |
| 2007 | Medical Director, CME activity entitled "Acute Decompensated HF in the ED and Beyond" MetroHealth Medical Center/Case Western Reserve University, Cleveland, OH |
| 2007-2009 | Bioengineering PhD Thesis Advisory Committee (Maria Dikshteyn) |
| 2005-current | Cardiology Teaching, Block 4 (lectures, summary and integration sessions, review sessions, exam grading) Case Western Reserve University, Cleveland, OH |
| 2008-2012 | Chair, MS Thesis Committee for Cristina Bocirnea, MD, Clinical Research Scholars Program Case Western Reserve University |
| 2011-current | Physiology 461 Medical Physiology Regulation of Arterial Pressure and Cardiac Output Hypertrophy/heart failure/hypertension Case Western Reserve University, Cleveland, OH |
| 2014-2015 | Physiology 514 teaching: Role of the Sympathetic Nervous System in Health and Disease Case Western Reserve University |
| 2014-current | ECG teaching, MetroHealth Hospital and Case Western Reserve University, Cleveland, OH |

Sponsor for Graduate Students/Trainees

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| 1992-1993 | Toru Kinugawa, MD, Post-doctoral Fellowship, American Heart Association, NE Ohio Affiliate: "Cardiopulmonary baroreflexes in early heart failure" |
| 1994-1995 | Brian Donelan, MD, Post-doctoral Fellowship American Heart Association, Northeast Ohio Affiliate "Central effects of endothelin on sympathetic tone and sympathoexcitation in heart failure" |
| 1995 | Michael A. Choma, Summer Stipend, American Heart Association, Northeast Ohio Affiliate: "Mechanisms of altered acetylcholine release in animals with pacing induced heart failure" |
| 1996 | Roger D. Watson, Summer Stipend, American Heart Association, Northeast Ohio |

- 1996 Affiliate: "The role of norepinephrine, PGE₂, and VIP in congestive heart failure"
Michael A. Choma, Summer Stipend, Biomedical Engineering Department, CWRU:
"Mechanisms of altered acetylcholine release in heart failure"
- 1997 Alison Graves, Porter Physiology Award, American Physiological Society
"Exercise training effects in healthy and heart failure" (funding returned)
- 1998 Geoffrey Getnick, Summer Stipend, American Heart Association, Northeast Ohio
Affiliate

9) Research Support

Grant support

(A) Principal Investigator

- 1987-1989 Associate Investigator Award, Veterans Administration - \$167,495
"Mechanisms of Baroreflex Impairment in Heart Failure"; 80% effort
- 1989-1991 Grant-In-Aid, American Heart Associate, Virginia Affiliate - \$50,000
"Development of Neurohumoral Abnormalities in Heart Failure:
Role of Baroreflexes and Baroreflex Interactions"; 20% effort
- 1990-1994 Research Associate Award, Department of Veterans Affairs - \$266,000
"Circulatory and Ventilatory Control in Heart Failure"; 80% effort
- 1991-1994 Merit Review, Department of Veterans Affairs - \$163,217
"Baroreflex Abnormalities in Developing Heart Failure" 35% effort
- 1995-1999 Merit Review, Department of Veterans Affairs - \$313,700
"Cholinergic Mechanisms in Heart Failure: Role of Acetylcholine Release"; 35%
effort
- 1995-2000 Clinical Investigator Award, Department of Veterans Affairs - \$750,000
"Cholinergic Mechanisms in Heart Failure"; 80% effort
- 1995-1998 RO1, NIH HL50669 - \$448,701
"Pre- and Post-Ganglionic Vagal Mechanisms in Heart Failure"; 40% effort
- 1995-2000 Research Career Development Award, NIH K04 - \$312,250
"Pre- and Post-Ganglionic Vagal Mechanisms in Heart Failure"
(returned due to overlapping funding)
- 1999-2003 Merit Review, Department of Veterans Affairs - \$551,400
"Cholinergic Mechanisms in Heart Failure: Role of Ganglionic Transmission"; 35%
effort
- 2000-2005 HSR&D CHF-QUERI, Department of Veterans Affairs - \$750,000
"Randomized Trial of a Telephone Intervention in Heart Failure Patients"; 35%
effort
- 2002-2004 HSR&D CHF-QUERI, Department of Veterans Affairs - \$138,000
Clinical Coordinator, CHF-QUERI (Houston Coordinating Center); 5% effort
- 2004-2006 Merit Review, Department of Veterans Affairs - \$703,500
"Modulation of Ganglion Transmission in Heart Failure"; 30% effort
- 2014-2018 Investigator Initiated Study, Otsuka Pharmaceuticals -- \$502,175
"Neurocognitive Impairment in Heart Failure: Prevalence and Effects of
Hyponatremia"

(B) Clinical Trials

- 1990-1996 **DIG: Digitalis Investigative Group:** Trial to evaluate the effect of digitalis on
mortality in heart failure; Site PI; Sponsor: Cooperative Studies Program #995
Jointly sponsored by NIH and Department of Veterans Affairs
- 1995-1996 Multicenter, randomized evaluation of the acute and long-term hemodynamic
effects and safety of the angiotensin II receptor antagonist irbesartan in the
treatment of heart failure; Site PI; Sponsor: Bristol-Myers Squibb, Pharmaceutical

- Research Institute
- 1995-1996 **VEST:** A randomized, double-blind, placebo controlled, multiple dose study of the chronic administration of **VES**narinone in heart failure; Site PI
Sponsor: Otsuka America Pharmaceutical, Inc.
- 1996-2004 **PEACE:** Prevention of **E**vents with **A**ngiotensin **C**onverting **E**nzyme Inhibition; Site PI (also on Steering Committee for this study); Sponsor: NIH/HLBI
- 1997-1998 Multicenter, Randomized Study of the Long-term Hemodynamic Effects and Safety of the Dual Metalloprotease Inhibitor (DMP-i); Site PI
Sponsor: Bristol-Myers Squibb, Pharmaceutical Research Institute
- 1996-1999 **MERIT-HF:** "**M**etoprolol **R**andomized **I**ntervention **T**rial in Congestive **H**eart **F**ailure; Site PI
Sponsor: Astra USA, Inc.
- 1997-1998 **IMPRESS:** Inhibition of **M**etallo **P**rotease by BMS-186716 (Omapatrilat) in a **R**andomized **E**xercise and **S**ymptoms **S**tudy in Subjects with Heart Failure; Site PI, also a Regional Coordinator for this study
Sponsor: Bristol-Myers Squibb, Pharmaceutical Research Institute
- 1998-1999 A Multicenter, Randomized, Double Blind, Lisinopril and Placebo Controlled Trial of the Antihypertensive Efficacy and Safety of Omapatrilat in Black Subjects with Mild to Moderate Hypertension; Site PI; Sponsor: Bristol-Myers Squibb, Pharmaceutical Research Institute
- 1998-1999 Evaluation of the Tolerability and Safety of Candesartan Cilexetil in Patients with Congestive Heart Failure: A Multicenter, Double-blind, Placebo-controlled, Randomized, Forced Dose-Titration Study; Site PI; Sponsor: Astra Pharmaceuticals, LP
- 1998-2003 **CHARM:** Candesartan Cilexetil in **H**eart **F**ailure **A**ssessment of **R**eduction in **M**ortality and **M**orbidity; Site PI, also a U.S. National Leader and Steering Committee Member for this study, and Vice-Chair of the U.S. Investigative Committee
Sponsor: Astra-Zeneca
- 1999-2002 **OVERTURE:** "**O**mapatrilat **V**s. **E**nalapril **R**andomized **T**rial of **U**tility in **R**educing **E**vents; Site PI; Sponsor: Bristol-Myers Squibb
- 2000-2001 Safety and efficacy of Ranolazine in heart failure; Site PI
Sponsor: CV Therapeutics
- 2001-2002 Interpreting the Kansas City Cardiomyopathy Questionnaire (KCCQ), Site PI
Sponsor: University of Missouri
- 2000-2003 **WATCH:** **W**arfarin and **A**ntiplatelet **T**herapy in **C**hronic **H**eart **F**ailure, Site PI
Sponsor: Department of Veterans Affairs CSP #442
- 2001-2004 **A-HeFT:** **A**frican-**A**merican **H**eart **F**ailure **T**rial, Site PI
Sponsor: MIMC, NitroMed
- 2003-2006 Thyroid Hormone Analog: Treatment of Heart Failure (DITPA), Site PI
Sponsor: Department of Veterans Affairs CSP #526
- 2005-2006 **ECLIPSE:** Multi-center, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Effect of Single Oral Tolvaptan Tablets on Hemodynamic Parameters in Subjects with HF, Site PI; Sponsor: Otsuka Maryland Research Institute, Inc.
- 2006-2013 **RED-HF:** A Double-blind, Randomized, Placebo-controlled, Multicenter Study to Assess the Efficacy and Safety of Darbepoetin alfa Treatment on Mortality and Morbidity in HF Subjects with Symptomatic Left Ventricular Systolic Dysfunction and Anemia: **R**eduction of **E**vents with **D**arbepoetin alfa in **H**eart **F**ailure **T**rial; Site co-PI and member, Steering Committee and US National Leadership; Sponsor: Amgen Inc.
- 2007-2009 **PROTECT:** **P**lacebo-controlled **R**andomized study of the selective A1 adenosine receptor antagonist KW-3902 for patients hospitalized with acute HF and volume
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- Overload to assess Treatment Effect on CongesTion and renal function; Site PI;
Sponsor: Merck & Co., Inc.
- 2007-2010 **ASCEND-HF**: Double-Blind, Placebo-Controlled, Multicenter Acute Study of
Clinical Effectiveness of Nesiritide in Subjects With Decompensated Heart Failure;
Site PI and member, Steering Committee; Sponsor: Scios/Johnson and Johnson
- 2008-2010 **THE BALANCE** Study: "Treatment of Hyponatremia Based on LixivAptan in NYHA
Class III/IV Cardiac Patient Evaluation; Site PI; Sponsor, Cardiokine Biopharma,
LLC
- 2007-2013 **TOPCAT**: Treatment Of Preserved Cardiac function heart failure with an
Aldosterone antagonist; Site PI; Sponsor: NIHLBI
- 2008-2012 Symplicity HTN I: Renal Denervation in Patients with Refractory Hypertension:
Phase I Pilot Study, Site PI; Sponsor: Ardian, Inc.
- 2010-2013 Hyponatremia Registry, Site PI
Sponsor: Otsuka Pharmaceuticals
- 2010-2015 **INOVATE HF: INcrease Of VAgal TonE** in chronic Heart Failure, Site PI
Sponsor: BioControl Medical, Inc.
- 2010-present **ADVENT-HF**: A Multi-Centre, Randomized Study to Assess the Effects of ADaptive
Servo VENTilation on Survival and Frequency of Cardiovascular Hospital
Admissions in Patients with Heart Failure and Sleep Apnea; Site PI and member,
Steering Committee
Sponsor: Canadian Institutes for Health Research (CIHR) and Philips-Respironics
Inc.
- 2011-2013 **ATOMIC-HF**: A Double-blind, Randomized, Placebo-controlled, Multicenter Study
to Evaluate the Safety and Efficacy of IV Infusion Treatment with Omecamtiv
Mecarbil in Subjects with Left Ventricular Systolic Dysfunction Hospitalized for
Acute HF, Site PI
Sponsor: Amgen, Inc.
- 2011-2016 Symplicity HTN III: Renal Denervation in Patients with Uncontrolled Hypertension,
Site PI
Sponsor: Medtronic, Inc.
- 2012-2013 **EXACT-HF**: Effects of Xanthine Oxidase Inhibition in Hyperuricemic Heart Failure
Patients, Site PI; Sponsor: NIH Heart Failure Network
- 2012-2013 **ROSE: Renal Optimization Strategies Evaluation** in Acute Heart Failure, Site PI
Sponsor: NIH Heart Failure Network
- 2012-2013 **RED Rose: Reliable Evaluation of Dyspnea** in the HF Network **ROSE** Study, Site
PI; Sponsor: NIH Heart Failure Network
- 2013-2015 **FIGHT: Functional Impact of GLP-1 for Heart Failure Treatment**, Site PI
Sponsor: NIH Heart Failure Network
- 2014-2016 **ATHENA-HF: Aldosterone Targeted NeuroHormonal CombinEd with Natriuresis**
TherApy, Site PI; Sponsor: NIH Heart Failure Network
- 2014-2016 **IRONOUT-HF: Oral Iron Repletion effects ON Oxygen UpTake** in Heart Failure,
Site PI
Sponsor: NIH Heart Failure Network
- 2016-current **INDIE-HFpEF: Inorganic Nitrite Delivery to Improve Exercise Capacity** in HFpEF,
Site PI
Sponsor: NIH Heart Failure Network
- 2016-current **LIFE: Entresto™ (LCZ696) In Advanced Heart FailurE**, Site PI
Sponsor: NIH Heart Failure Network
- 2016-current **GRAHF 2: Genomic Response Analysis of Enhanced Heart Failure Therapy** in
African Americans; Site PI
Sponsor: NIH R01 MD009118-01, Dennis M. McNamara, PI
- 2017-current **SUBQ-HF Pilot Study: Subcutaneous Furosemide** in Acute Decompensated HF
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2018-current Site PI; Sponsor: NIH Heart Failure Network
Protocol Number **ROX US HTN-01**: A prospective, randomized, adaptive, double-blind, sham-controlled, multicenter study to evaluate the ROX Coupler in subjects with hypertension
Site PI; Sponsor: ROX Medical, Inc.

(C) Co-Principal Investigator

1989-1994 NIH RO1 (Marc D. Thames, MD, PI)
"Cardiac Receptor with Vagal C-Fiber Afferents"--\$810,237
1991-1995 Merit Review (Marc D. Thames, MD, PI)
"Reflex Control in Congestive Heart Failure"
Department of Veterans Affairs--\$653,100
2012-2019 NIH Heart Failure Network, HL110336-01 - \$2,500,000
Co-PI, 10% effort, Cleveland Center, project entitled:
"Renal Sympathetic Denervation in Congestive Heart Failure"; Wilson Tang, MD, PI

10) Bibliography (underline indicates active hyperlink)

(A) Articles

1. [Dibner-Dunlap ME, Eckberg DL, Magid NM, Cintrón-Treviño NM. The long-term increase of baseline and reflexly augmented levels of human vagal-cardiac nervous activity induced by scopolamine. Circulation. 1985 Apr;71\(4\):797-804.](#)
2. [Dibner-Dunlap ME, Thames MD. Baroreflex control of renal sympathetic nerve activity is preserved in heart failure despite reduced arterial baroreceptor sensitivity. Circ Res. 1989 Dec;65\(6\):1526-35.](#)
3. [Arrowood JA, Mohanty PK, Hodgson JM, Dibner-Dunlap ME, Thames MD. Ventricular. Sensory endings mediate reflex bradycardia during coronary arteriography in humans. Circulation. 1989 Nov;80\(5\):1293-300.](#)
4. [Minisi AJ, Dibner-Dunlap M, Thames MD. Vagal cardiopulmonary baroreflex activation during phenylephrine infusion. Am J Physiol. 1989 Nov;257\(5 Pt 2\):R1147-53.](#)
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(B) Articles—from Clinical Trials as PI or study leadership

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93. Pattanshetty DJ, Cook D, Malik S, **Dunlap ME**: Heart Failure Patients with Reduced Ejection Fraction have Higher Prevalence of Cognitive Impairment despite Normal MMSE. *Journal of Cardiac Failure* 2017.

11) Scientific and Educational Presentations

- November 1989 Chairman, Session on Reflex Control in Heart Failure
62nd Scientific Sessions of the American Heart Association
- November 1991 Chairman, Session on Baroreflex Mechanisms in Normal and Disease States
64th Scientific Sessions of the American Heart Association
- June 1992 9th Annual Health Science Association Cardiovascular Research Conference
Young Investigators Symposium, West Point, Pennsylvania
- November 1992 Chairman, Session on Baroreceptors and Baroreflexes
65th Scientific Sessions of the American Heart Association
- November 1993 Chairman, Session on Autonomic/Reflex Control: Heart Failure and Exercise
66th Scientific Sessions of the American Heart Association
- March 1995 “Neurohumoral Mechanisms of Heart Failure: Potential Utility of Angiotensin II
Antagonists”; Symposium on New Therapeutic Agents in the Management of
Hypertension and Heart Failure: Angiotensin II Receptor Antagonists, Division of
Hypertension, Case Western Reserve University, Cleveland, OH
- September 1995 CSF Levels of Angiotensin-II Are Decreased in Congestive Heart Failure
American College of Cardiology, Ohio Chapter
- March 1996 “Baroreflex in Heart Failure”; Neurohormones in Heart Failure Expert Panel
Orlando, Florida (sponsored by Medtronic, Inc.)
- April 1996 Chairman, Session on Neural Control of Circulation;
Experimental Biology meeting, Washington, DC
- May 1996 “Neuroexcitatory State and Disease Progression in Congestive Heart Failure”
Symposium on Exercise in Congestive Heart Failure
American College of Sports Medicine, Cincinnati, Ohio
- September 1996 Special invitation to speak at XXIII Argentine Congress of Cardiology
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- Buenos Aires, Argentina
- January 1998 "Challenges and Progress in Managing Hypertension", Detroit, Michigan
- April 1998 Invited presentation, Research Day, Cleveland VAMC:
"Congestive Heart Failure: From Leaves to Snake Venom and Beyond"
- May 1998 Invited presentation, "Abnormalities of Autonomic Control in Heart Failure", Second Annual Retreat of the Cardiac Bioelectricity Research and Training Center, CWRU
- November 1998 Chairman, Session on Mechanisms of Autonomic Control in Heart Failure
71st Scientific Sessions of the American Heart Association
- November 1998 "Cholinergic control in heart failure"
Cleveland Clinic Foundation Anesthesia Grand Rounds
- April 1999 "Nocturnal Hypoxemia: Congestive Heart Failure or Sleep Apnea?"
Invited speaker, conference on Cardio-Pulmonary Evaluation and Management in Clinical Practice, sponsored by University Hospitals of Cleveland and CWRU
- August 1999 "Role of Ganglionic Transmission in Parasympathetic Abnormalities in Heart Failure"
The Pascal Goldschmidt Invited Speaker,
The Ohio State University Medical Center, Heart and Lung Institute, Columbus, OH
- January 2000 "Issues of Aspirin and ACE Inhibition Use"
PEACE investigators' meeting, Palm Harbor, Florida
- January 2000 "Strategies for Increasing Patient Enrollment"
PEACE investigators' meeting, Palm Harbor, Florida
- February 2000 "Cholinergic Mechanisms in Heart Failure"
Howard University, Department of Pharmacology, Washington DC
- June 2000 Invited Speaker and Visiting Professor, "Abnormalities of Cholinergic Control in Heart Failure", University of Toronto, Toronto, Ontario, Canada
- September 2000 US Representative, CHARM Steering Committee Meeting, Amsterdam, The Netherlands
- November 2000 Chairman, Session on Autonomic Cardiovascular Control: Basic Nitric Oxide and Natriuretic Peptide Mechanisms, 73rd Scientific Sessions of the American Heart Association
- December 2000 "Abnormalities of Sympathetic and Parasympathetic Control in Heart Failure";
Brigham and Women's Hospital Cardiology Grand Rounds, Harvard University, Boston, Mass.
- March 2001 "ARB's vs. ACEI's vs. Beta Blockers: Which Treatment for Heart Failure?"
Symposium on CV Disease: The Promise of Prevention and Reversal of Target Organ Damage, Palm Springs, California
- June 2001 "Recruitment and Retention in the PEACE trial", panel discussion
PEACE investigators meeting, San Antonio, Texas
- June 2001 "Mechanisms of Baroreflex Abnormalities in Heart Failure"
Simposio Internacional de Salud, Rosario, Argentina
- July 2001 "Strategies to Optimize the Clinical Care of the Heart Failure Patient"
Heart Failure Management 2001, Amelia Island, Florida
- September 2001 US Representative, CHARM Steering Committee Meeting, Stockholm, Sweden
- September 2001 "Pathophysiology of Heart Failure due to diastolic dysfunction"
Common Cardiac Approaches: Focused Approaches to Evaluation and Management University Hospitals of Cleveland, Cleveland, Ohio
- September 2001 "Acutely Decompensated Heart Failure: Presentation and Management"
Heart Failure Society of America Meeting, Washington, DC
- October 2001 "Unusual Features of Heart Failure—sleep disordered breathing in patients with heart failure"; Santa Fe Colloquium on Cardiovascular Therapy, Santa Fe, New Mexico; Sponsored by the American College of Cardiology
- November 2001 "What is the Role of Angiotensin II Receptor Antagonist in the Treatment of Heart Failure?"
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- November 2001 The First WHF Global Conference on Cardiovascular Clinical Trials, Hong Kong, China
"Trial Presentation: IMPRESS/OVERTURE"
- November 2001 The First WHF Global Conference on Cardiovascular Clinical Trials, Hong Kong, China
"Strategies and Designs of Clinical Trials in Heart Failure – What Are Appropriate Endpoints?"
- November 2001 The First WHF Global Conference on Cardiovascular Clinical Trials, Hong Kong, China
"Update on Pathophysiology and Treatment of Heart Failure"
- February 2002 Medical Grand Rounds, Logan Hospital, Logan, West Virginia
"Design and implementation of Cardiovascular Clinical Trials"
- February 2002 University Hospitals of Cleveland Residents conference
"Myths and Realities of Beta Blockade in Heart Failure"; CME Symposium on ABC's of Heart Failure, sponsored by Case Western Reserve University, Cleveland, OH
- March 2002 "Neurohumoral Modulation in Heart Failure"
Grand Rounds, West Allis Memorial Hospital, West Allis, Wisconsin
- March 2002 Co-Chairman, session on "Exercise and the Heart Failure Patient: Provocative Observations", American College of Cardiology meetings, Atlanta, Georgia
- March 2002 "Neurohumoral Modulation in Heart Failure"
Medical Grand Rounds, McGuire VA Medical Center, Richmond, Virginia
- June 2002 "Using Quality Reports in the CHARM Trial"
CHARM International Monitors Meeting, Megève, France
- July 2002 Panel Discussion, "Role of the Heart Failure Clinic Team", Heart Failure Management 2002: Established Therapy and New Frontiers, Amelia Island, Florida
- August 2002 "Beta-blocker use in patients with COPD and heart failure"
Toprol-XL Core US Advisory Board Meeting, Mackinaw Island, MI
- November 2002 Invited Speaker, "Beta Blockers as Part of the New Standard of Care in Heart Failure"; Medical Grand Rounds, St. Vincent Health Center, Erie, Pennsylvania
- February 2003 "Devices in Heart Failure" Workshop; CME symposium on ABC's of Heart Failure, sponsored jointly by CWRU, University Hospitals, and The Cleveland Clinic
- April 2003 "Hyperthyroid heart disease"
Morbidity and Mortality Rounds, University Hospitals of Cleveland
- April 2003 "Acute management of patients with atrial fib and flutter with rapid ventricular response"
Morbidity and Mortality Rounds, Louis Stokes Cleveland VA Medical Center
- May 2003 "Update on Heart Failure"; Advanced Practice Continuing Education Nursing Series, Louis Stokes Cleveland VA Medical Center, Cleveland, Ohio
- June 2003 "Legionnaire's Myocarditis"
Morbidity and Mortality Rounds, Louis Stokes Cleveland VA Medical Center
- July 2003 "Utilization of beta blockade in patients with potential contraindications"
Heart Failure Management 2003: Established Therapy and New Frontiers
Amelia Island, Florida
- August 2003 "Myths of beta blocker use in patients with cardiovascular disease"
Medical College of Wisconsin, Milwaukee, WI
- September 2003 "Control of the circulation in heart failure: effects of exercise training"
Trends in exercise physiology and cardiac rehabilitation Symposium, Rome, Italy
- September 2003 "Effect of Candesartan on reduction of events in patients with HF and preserved systolic function—results of the CHARM-Preserved study"
Principle Investigators Meeting, Heart Failure Society of America, Las Vegas, NV
- September 2003 CHARM program, Panel discussion; Satellite Symposium
Heart Failure Society of America, Las Vegas, NV
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- September 2003 "How to detect breathing-related disorders in patients with heart failure"
Lunch and Learn Symposium, Heart Failure Society of America, Las Vegas, NV
- October 2003 "Beta blocker therapy in congestive heart failure"
29th Annual Appleton Heart Institute Cardiovascular Conference, Appleton, WI
- October 2003 "Heart failure in women"; Mini-Medical School Series
Case Western Reserve University, Cleveland OH
- November 2003 "New Therapeutic Strategies in HF Management: Results from the CHARM
Program"
CME Satellite Symposium—Data Talks! The latest chapter on ARBs in HF
American Heart Association Scientific Sessions, Orlando, Florida
Also on the program: Marc Pfeffer, MD, PhD; Karl Swedberg, MD, PhD; Chris
Granger, MD; James Young, MD. This program was recorded for a web-based
CME module on TheHeart.org.
- November 2003 Co-Chair, session on "Featured Research: Novel Neuronal Mechanisms of
Cardiovascular Dysregulation", American Heart Association Meeting, Orlando,
Florida
- November 2003 Co-Chair, session on "Neurohumoral Control and Heart Failure"
American Heart Association Meeting, Orlando, Florida
- December 2003 "Treatment of Diastolic Dysfunction"
American Society of Hypertension Mid-Atlantic Chapter Meeting, Washington DC
- December 2003 Chair, CHARM Educational Committee Meeting, New York City
- December 2003 "Myths and Realities of beta blocker use in patients with HF"
Cleveland Clinic Foundation, HF seminar series
- January 2004 "Prevent, Protect, Prolong: The Role of Beta Blockers in the Fight Against
Cardiovascular Disease"
Pri-Med Steering Committee Co-Chair, Faculty Training Meeting, Washington DC
- February 2004 "Optimizing Subspecialty Outpatient and Procedure Clinics"
Advanced Clinic Access Implementation meeting, Department of Veterans Affairs
Baltimore, MD
- February 2004 "Myths and Realities of beta blocker use in patients with HF"
Cardiology Grand Rounds, University Hospitals of Cleveland, Cleveland, OH
- February 2004 "New approaches in heart failure management", and
"ARB's in HF: New evidence from the CHARM trial"
20th Scientific Meeting of the International Society of Hypertension
Sao Paulo, Brazil
- March 2004 "Abnormalities of Autonomic Control in HF"
Cardiology Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- March 2004 "Heart Failure: Key Learning from New Findings"
Meeting of Canadian Cardiologists
in association with the American College of Cardiology Meeting, New Orleans
- March 2004 "Heart Failure with preserved systolic function: new insights from recent trials"
Satellite Symposium, American College of Cardiology Meeting, New Orleans
- March 2004 "HF patients with Pulmonary Hypertension"
Online case presentation and discussion
TheHeart.org [Satellite programs: Failings of the heart]
- March 2004 "Neurohormonal blockade in HF: Is there an upper limit?"
VA Community Based Outpatient Clinic CME Teleconference, Cleveland, OH
- April 2004 "Evaluation of the Newest Studies Impacting Heart Failure"
Academy of Managed Care Pharmacy National Meeting, San Francisco, CA
- April 2004 "Heart failure with preserved systolic function:
Current perspectives and treatment options"
Vascular Biology Working Group meeting, Orlando, FL
- April 2004 Invited presentation, Research Day, Cleveland VAMC
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- April 2004 “Recent advances in heart failure treatment: Far beyond leaves and snake venom”
“Manipulation of the Renin Angiotensin System in HF: ACEIs and ARBs”
Concepts and Controversies in Heart Failure, Dallas, TX
Sponsored by the Dallas VA Medical Center
- May 2004 “Translating the trials: Applying evidence-based medicine to clinical practice”
Vascular Biology Working Group meeting, Philadelphia, PA
- May 2004 “Heart Failure Guidelines: What's on the Horizon?”
16th Annual National Managed Health Care Congress, Washington, DC
- June 2004 “Effects of exercise on autonomic function in heart failure”
Exercise Rehabilitation Symposium, St. Paul Hospital, Barcelona, Spain
- June 2004 “Neurohormonal blockade in HF: is there an upper limit?”
Bronx Lebanon Hospital Center, Bronx NY
- June 2004 “Trials of the renin angiotensin system in heart failure”; Regional Faculty
Development Program, Charleston, SC (sponsored by AstraZeneca)
- June 2004 “Neurohormonal blockade in HF: is there an upper limit?”
Cardiology conference, University Hospitals of Cleveland
- July 2004 “Heart Failure with an Emphasis on Ischemia: Pathophysiology, and
How is Heart Failure Different in the Patient with Ischemia?”
Comprehensive Treatment of Heart Failure, Seattle, Washington
Sponsored by the American College of Cardiology (co-Director of program)
http://www.acc.org/education/programs/brochures/pina_july04.htm
- July 2004 “Medical Therapy Present and Future: Are There any New Agents in the Pipeline?”
Comprehensive Treatment of Heart Failure, Seattle, Washington
Sponsored by the American College of Cardiology
- July 2004 “Diagnosing and Treating Sleep Apnea in the Heart Failure Patient”
Heart Failure Management 2004: Established Therapy and New Frontiers
Amelia Island, Florida, Sponsored by the University of North Carolina
- July 2004 “Utilization of Beta Blockade in Patients with Potential Contraindications”
Heart Failure Management 2004: Established Therapy and New Frontiers
Amelia Island, Florida, Sponsored by the University of North Carolina
- August 2004 10th International Congress of Internal Medicine of the Hospital de Clínicas
Buenos Aires, Argentina
Pre-Congress Course; four presentations:
“Abnormalities of autonomic control in heart failure”
“Update on treatment of heart failure”
“Myths and realities of beta blocker use in patients with heart failure”
“Case report—HF with Pulmonary Hypertension”
- August 2004 “Heart failure in patients with preserved systolic function”
Plenary Session, 10th International Congress of Internal Medicine of the Hospital de
Clínicas
Buenos Aires, Argentina
- September 2004 “Progress in the Treatment of Chronic Heart Failure”
Satellite Symposium: Breakthroughs in Heart Failure Treatment:
Clinical Management of Patients With Systolic and Diastolic Dysfunction
Heart Failure Society of America Scientific Sessions, Toronto, Ontario, Canada
- September 2004 “How to Assess Diastolic Dysfunction”
Heart Failure Society of America Scientific Sessions, Toronto, Ontario, Canada
- September 2004 “Heart failure patients with diastolic dysfunction”; TheHeart.Org
[Satellite programs: Failings of the heart]
<http://www.theheart.org/viewArticle.do?primaryKey=298417>
- September 2004 “Biventricular Devices in Perspective: a Round Table Discussion”
17th Annual Heartbeats Fast and Slow Symposium, Cleveland, Ohio
- October 2004 “Translating the trials: Applying evidence-based medicine to clinical practice”
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- October 2004 Vascular Biology Working Group regional faculty meeting, New York, New York
"Neurohormonal blockade in HF: Have we reached the upper limit?"
Vascular Biology and Hypertension Research Seminar
University of Alabama, Birmingham, Alabama.
- October 2004 "Unique aspects of PEACE vs. HOPE and EUROPA:
Comparison of baseline characteristics."
Satellite Symposium, Canadian Cardiovascular Congress, Calgary, Alberta, CA
- November 2004 "Neurohormonal blockade in HF: Have we reached the upper limit?"
Cardiology Grand Rounds, University of Missouri, Columbia, Missouri
- December 2004 "ACE Inhibitors, ARBs, and Emerging Heart Failure Treatment Strategies"
Online CME program (with Harry Leider, MD)
- January 2005 "Do ACE Inhibitors offer protection in CAD patients with normal systolic function?"
Symposium, Quebec Society of Hypertension, Quebec City, Quebec, Canada
- January 2005 "HF in patients with preserved systolic function:
Current perspective and treatment options"
VA Community Based Outpatient Clinics CME teleconference, Cleveland, Ohio
- February 2005 PriMed Curriculum Review Faculty member, Washington, DC
- March 2005 Angiotensin receptor blockers in heart failure: More than just another alternative.
www.theheart.org [Satellite programs: Heart throb]
- April 2005 "Quality of Life among women with heart failure: Does EF Matter?"
1st Latin American Symposium of Cardiovascular Diseases in Women
San Juan, Puerto Rico
- May 2005 "Understanding Heart Failure in African Americans"
"Nitric Oxide-Enhancing Medication and Endothelial Dysfunction"
"African American Heart Failure Trial (A-HeFT): Study Design and Results"
Regional Advisory Board, Dearborn, Michigan
- June 2005 "Evolution in the Treatment of Heart Failure"
"Comparing CHARM with Other ARB Trials"
Managed Markets Meeting, Philadelphia, PA
- June 2005 "Research in the Department of Veterans Affairs"
Congressional Office Staff Day, Louis Stokes Cleveland VAMC, Cleveland, Ohio
- June 2005 CHARM speaker training program (faculty), Boston, MA
- July 2005 "Utilization of Beta Blockade in Patients with Potential Contraindications"
Amelia Island Heart Failure Update (sponsored by University of North Carolina)
- August 2005 "Improving Outcomes in Heart Failure"
Kettering Medical Center Grand Rounds, Kettering OH
- September 2005 "How to Start and Adjust Neurohormonal Therapies in HF"
Heart Failure Society of America Scientific Sessions, Boca Raton, Florida
- September 2005 "New Heart Failure Guidelines: The Role of Angiotensin Receptor Blockade"
Heart Failure Society of America Satellite Symposium, Boca Raton, Florida
- September 2005 "From Inception to reality: The CHARM story" www.theheart.org
[Satellite programs (CME): Symposium highlights]
- September 2005 "An Advanced Clinic Access Approach to HF clinics:
Early experience with Shared Medical Appointments"
National Cardiology Advanced Clinic Access teleconference, Department of
Veterans Affairs
- November 2005 "Alterations of the parasympathetic nervous system in heart failure:
does restoration slow disease progression?"
MetroHealth Medical Center Research Seminar, Cleveland, OH
- November 2005 Moderator, Samuel A. Levine Young Clinical Investigator Award
American Heart Association Scientific Sessions, Dallas, Texas
- November 2005 Invited Speaker and Moderator
"How to Establish Best Practices for Medical Therapy of HF"
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- January 2006 American Heart Association Scientific Sessions, Dallas, Texas
"Abnormalities of conduit vessel function in hypertension and heart failure"
Cardiology Conference, Oklahoma University Health Science Center
Oklahoma City, Oklahoma
- January 2006 "Cardiovascular control mechanisms in health and disease"
Pulmonary Critical Care Research Conference, CWRU
- February 2006 "Management of Acute Decompensated Heart Failure" Workshop
CME symposium on ABC's of Heart Failure, sponsored jointly by CWRU, University
Hospitals, The Cleveland Clinic, and the Louis Stokes Cleveland VA Medical
Center
- March 2006 Co-Chair, Meet the Experts
"Comorbidities in Heart Failure: Sleep Apnea, Anemia, and Depression"
"Sleep disordered breathing in patients with heart failure"
- March 2006 American College of Cardiology Scientific Sessions, Atlanta, Georgia
Clinical Controversies: Pharmacologic Therapy for Diastolic Heart Failure
"Angiotension-Receptor Blockers--Opening Arguments/Rebuttal, Antagonist"
- March 2006 American College of Cardiology Scientific Sessions, Atlanta, Georgia
"Angiotensin receptor blockers in hypertension and heart failure--
do the differences matter?"
"Heart failure management guidelines and their implementation in practice"
"What is the future of ARBs in patients with cardiovascular disease?"
- April 2006 Latin American Regional Cardiovascular Meeting, Guatemala City, Guatemala
"Hospitalization and Discharge of the Heart Failure Patient"
Live video broadcast (video-taped and re-broadcast online)
Sponsored by the Department of Veterans Affairs and by the Annenberg Center
<http://www.5starmeded.com/rc/rc89.html>
- April 2006 "Functional Class, Quality of Life, and 6 Minute Walk test in heart failure patients
with low vs. preserved systolic function: Baseline data from HearT-1"; Research
ShowCASE, sponsored by Case Western Reserve University, Cleveland, Ohio
- May 2006 "Acute Decompensated Heart Failure: An Updated Management"
2nd International Meeting of Atherothrombosis & Panvascular Intervention of
Guadalajara. Guadalajara, Mexico
- July 2006 "Utilization of Beta Blockade in Patients with Potential Contraindications"
Amelia Island Heart Failure Update (sponsored by University of North Carolina)
- July 2006 "How to Conduct Shared Medical Appointments for HF Patients"
Amelia Island Heart Failure Update (sponsored by University of North Carolina)
- September 2006 "How to use Beta Blockade in Patients with Potential Contraindications"
'How to Session", Heart Failure Society of America Scientific Sessions, Seattle,
Washington
- September 2006 "Alterations of the parasympathetic nervous system in HF:
does restoration slow disease progression?"
Cardiology Grand Rounds, Univ. of Colorado Health Sciences Center
Denver, Colorado
- September 2006 "New Guideline Recommendations for HF Management:
Implications for Clinical Practice"
Cardiology Updates, Los Angeles
- October 2006 "Improving Outcomes in HF: New Insights from Vascular Biology"
Medical Grand Rounds, WRCS Forum Health, Northside Medical Center
Youngstown, OH
- October 2006 "Contemporary management of the HF patient with co-morbidities:
can't sleep, can't breathe, can't pee"
Cardiology Grand Rounds, MetroHealth Medical Center, Cleveland, Ohio
- October 2006 "Update on the Treatment of Heart Failure"
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- October 2006 CCH Providers Retreat, MetroHealth System, Cleveland, Ohio
“Cardiac Monitoring Devices for CHF: are noninvasive alternatives just as good?”
Cardiac Monitoring Devices for CHF, invited speaker and panel member
- October 2006 Transcatheter Cardiovascular Therapeutics Annual Meeting, Washington, DC
“Implications of Risk Factor Reduction: Clinical Trials and Meta-Analyses” and
“Pharmacologic Differences Among β -blockers: Recent Trials in Hypertension and HF”; Symposium entitled “Clarifying the Role of Beta-Blockers in the Hypertension Treatment Paradigm”, Miami, Florida
- November 2006 “Heart Failure: Exactly What is Failing and What Can We Do About It?”
Medicine Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- November 2006 “Preserving Ventricular Function in HF”; AHA CME Satellite Symposium entitled
“Targeting Novel Mechanisms in the Management of Cardiovascular Risk”
Chicago, Illinois; Peter Libby, MD, Chair
- November 2006 “Heart Failure Across the Ages”; theheart.org. [Satellite programs (CME) >
Spotlight];
Panel with Thomas Giles MD, Philip A Poole-Wilson MD, and Clyde W Yancy MD
Webcast: <http://www.theheart.org/article/752851.do>
- December 2006 “Beta 1-Cardioselective beta blockers for Management of Hypertension and HF:
Evidence-based Reviews of the Current Literature and Recent Clinical Trials”
Invited Speaker and Moderator
Symposium entitled “Optimizing Clinical Strategies in Heart Disease”, Dallas,
Texas
Webcast: <http://www.or-live.com/cmeducation/1852/>
- December 2006 “HypertensionWRAP: Focus on Approach to Heart Failure”
Webcast CME program: <http://healthwraps.com/emailthis/default.aspx?id=256>
- December 2006 “Role of Vasopressin Antagonists in the Treatment of Acute Decompensated HF”
Satellite Broadcast symposium entitled: “Acute Decompensated Heart Failure:
Established and Emerging Treatment Strategies”; Dallas, Texas
Webcast: <http://www.i3cme.com/>
- December 2006 Invited guest, WZAK radio talk show, “Heart Disease in African Americans”
- March 2007 “Overview of the patient with heart failure: Considerations for Exercise and Activity”
Ohio Association for Cardiovascular and Pulmonary Rehabilitation, Cleveland, OH
- April 2007 “Heart Failure: From Gene to Bedside (with emphasis on clinical aspects)”
International Society for Computerized Electrocardiology 32nd Annual Conference
Cancún, Mexico
- July 2007 “Utilization of Beta Blockade in Patients with Potential Contraindications”
Heart Failure Management 2007, Amelia Island, Florida
- July 2007 “How to Conduct Shared Medical Appointments for HF Patients”
Heart Failure Management 2007, Amelia Island, Florida
- July 2007 “What’s Next after ACE Inhibitors and Beta Blockers in patients with Symptomatic
Heart Failure”; XIV Puerto Rican Congress of Cardiology, Fajardo, Puerto Rico
- July 2007 “Use of Beta Blockers in Patients with Potential Contraindications”
XIV Puerto Rican Congress of Cardiology, Fajardo, Puerto Rico
- September 2007 “Effects of exercise on autonomic control in patients with heart failure”
62nd Brazilian Congress of Cardiology, São Paulo, Brazil
- September 2007 “What should we add to ACE inhibitors and beta-blockers in the symptomatic
patient with HF?”; 62nd Brazilian Congress of Cardiology, São Paulo, Brazil
- October 2007 “Taking the Congestion out of Heart Failure: Update on Acute Decompensated
HF”; Medical Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- October 2007 “Therapeutic Objectives: Hypertension to Heart Failure”
Reaching New Goals in Hypertension Management Symposium
4th Annual Midwest Hypertension and Vascular Biology Update, Chicago, IL
- October 2007 “Heart Failure: Recent Advances in Pharmacologic and Device Management”
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- The Central New York Academy of Medicine
Dr. Willard H. Willis 58th Annual Heart Teaching Day, Whitesboro, NY
- October 2007 "Update on Heart Failure"; Pulmonary Critical Care Fellows Conference
MetroHealth Medical Center, Cleveland, OH
- October 2007 Cardiac Monitoring Devices for CHF Debate: Role of Invasive Pressure Monitoring
for Management of Chronic Heart Failure (Antagonist: "Nonsense: All I Need Is a
Good Scale and a Compliant Patient!"
Transcatheter Cardiovascular Therapeutics 2007, Washington, DC
- October 2007 "Can We Take the Congestion Out of Failure and Keep the Kidney Afloat?"
Symposium, "Acute Decompensated Heart Failure in the ED and Beyond"
MetroHealth Medical Center/Case Western Reserve University
- October 2007 "From Acute to Chronic Disease Management" (with Sharon Mack, CNP)
Symposium, "Acute Decompensated Heart Failure in the ED and Beyond"
MetroHealth Medical Center/Case Western Reserve University
- November 2007 How to Manage Polypharmacy in Heart Failure: Which Drugs for Which Patients?"
Invited Presenter at AHA Scientific Sessions, Orlando, Florida
- December 2007 "Overview of CHF Management", Department of Physical Medicine and
Rehabilitation Resident Conference, MetroHealth Medical Center, Cleveland, OH
- January 2008 "Use of beta-blockers in patients with Potential Contraindications"
Invited Speaker, 24th Annual Frontiers of Cardiology Meeting, Winter Park,
Colorado
- January 2008 "Medical Students in the 21st Century", Invited Panel Member
24th Annual Frontiers of Cardiology Meeting, Winter Park, Colorado
- February 2008 "Update on Congestive Heart Failure"
CME talk for MetroHealth Internal Medicine Group, Cleveland, OH
- February 2008 "Current Clinical Trials in ADHF: ASCEND and PROTECT and THE-BALANCE"
Cardiology Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- April 2008 "Blood Pressure and New Onset Heart Failure"
Symposium entitled "New Onset Heart Failure: What We Know and What We
Don't Know"
American College of Cardiology 2008 Scientific Sessions, Chicago, Illinois
- April 2008 "Hyponatremia in Heart Failure: Current Concepts and Future Directions"
Medical Grand Rounds, Alpena Regional Medical Center in Alpena, Michigan
- April 2008 "Acute Decompensated Heart Failure: new and promising therapies"
International Conference on Invasive Cardiology of Guadalajara (CICIG 2008)
Guadalajara, Mexico
- May 2008 "Evaluation & treatment of patients with heart failure, what's new on the horizon?"
"Use of beta blockers in patients with cardiac disease when potential
contraindication exists"
"Taking the Congestion out of Heart Failure: Update on Acute Decompensated
Heart Failure (ADHF)"
"What next after ACE inhibitors and beta blockers in patients with chronic HF?"
American College of Cardiology Distance Learning program
Chandigarh and Bhopal, India
- May 2008 "Acute Decompensated Heart Failure (ADHF): Risks, Recognition and Rx"
MetroHealth Life Flight Critical Care Symposium, Cleveland, Ohio
- June 2008 Moderator, session entitled "Key Papers"
Heart Brain Medicine Summit, Cleveland Clinic, Cleveland, Ohio
- June 2008 Moderator, session entitled "Improving Post – Discharge Outcomes: Assessment,
Post-Discharge Monitoring"
5th International Meeting, Acute Heart Failure Syndromes
Clinical Trials & the Continued Need to Improve Post Discharge Outcomes
Stressa, Italy
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- July 2008 "Update on Heart Failure"
Resident Conference, MetroHealth Medical Center, Cleveland, Ohio
- July 2008 Moderator and Case Vignettes: "What do we add after "Standard HF Therapy?"
Invited Speaker: "How to Conduct Shared Medical Appointments for HF Patients"
Panel Member: "Role of the Heart Failure Clinic Team"
Heart Failure Management 2008: Established Therapy and New Frontiers
Amelia Island, Florida
- September 2008 Invited Speaker: "Three Generations of β -Blockers in Heart Failure: A Clinical Review"
Moderator: "The Heart Failure Continuum (Prevention to Destination) Is Best Managed in the USA"
Moderator: "An Endomyocardial Biopsy Should Be Performed in Most HF Patients"
Heart Failure Society of America 12th Annual Scientific Meeting
Toronto, Ontario, Canada
- November 2008 Moderator: "Clinical Practice 2008: Heart Failure with Preserved Systolic Function"
Scientific Sessions 2008, American Heart Association
New Orleans, Louisiana
- January 2009 Invited speaker: "Sleep Disordered Breathing in CHF"
Frontiers of Cardiology 2009, Winter Park, CO
- February 2009 Invited speaker: "Lessons Learned from Previous Cardiovascular Trials"
Red-HFTM Trial Study Coordinator Meeting, Washington, DC
- February 2009 Invited speaker: "ADHF-Transitions in Care from the ED and Beyond"
ABC's of Heart Failure: Across the Continuum of Care from Risk Prevention to Advanced Heart Failure Diagnosis to Prognosis; Cleveland, Ohio.
- March 2009 "Heart Failure"
Integrating Care Panel: "The Patient with Heart Failure and Co-morbid Diseases"
Northeast Ohio Collaborative to Improve Chronic Disease Care, Cleveland, OH
- April 2009 "HF Hospitalizations: a window of opportunity to impact readmission rates"
American Heart Association Get With the Guidelines Workshop, Columbus, OH
- April 2009 "How-To's of Ultrafiltration"
Cardiology Fellows Seminar, MetroHealth Medical Center, Cleveland, OH
- May 2009 "Renal denervation for the treatment of refractory hypertension"
Interview on WCPN, NPR Station, Cleveland, OH
<http://www.wcpn.org/index.php/WCPN/news/26171/>
- May 2009 "Medical trial testing a surgical fix for blood pressure"
Interview in the Cleveland Plain Dealer
http://www.cleveland.com/healthfit/index.ssf/2009/05/medical_trial_testing_a_surgi_c.html
- May 2009 "Reviewing the Clinical Impact of Beta-Blockers in Heart Failure"
PriMed Update, Dearborn, Michigan
- July 2009 Panel Moderator and Case Presenter: "What do we add after "Standard Therapy?"
"How to Conduct Shared Medical Appointments for HF Patients"
Heart Failure Management 2009, Amelia Island, Florida
- August 2009 "Nuts & Bolts -Evaluation & Treatment of the patient with Decompensated HF"
Resident noon conference, MetroHealth Medical Center, Cleveland, OH
- October 2009 Society for Heart Brain Medicine Annual Meeting, Co-Chair
"Therapeutic renal nerve denervation for Resistant Hypertension"
Chicago, IL
- October 2009 "Management of Heart Failure in a Community Clinic After Discharge"
Keynote Speaker, King's Daughters Medical Center, Heart and Vascular Update 2009; Ashland, KY
- November 2009 "Therapeutic renal nerve denervation: a paradigm shift for the treatment of HTN?"
Heart Failure Seminar, Cleveland Clinic, Cleveland, OH
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- January 2010 Invited speaker: "Novel Strategies for Lowering Blood Pressure"
Panel member: "Ethics in Medicine"
Frontiers of Cardiology 2010, Winter Park, CO
- January 2010 "Heart Failure begets Sleep Apnea begets Heart Failure:
Do you know how your Heart Failure patients do and don't sleep?"
American Heart Association / Get With The Guidelines BREATHE teleconference
(247 participants)
- February 2010 "Navigating the Challenge of Acute Decompensated Heart failure:
Co-Morbidity Management and new Guidelines"
CME Symposium Activity Director
Keynote Speaker: "Update on new Guidelines for ADHF"
MetroHealth Medical Center, Cleveland, OH
- February 2010 "Anemia in Heart Failure"
RED-HF Investigator's Meeting, San Francisco, CA
- March 2010 "Hospitalization and Mortality in Heart Failure"
"Cardiomyopathies Basic and Clinical II"
ACC Poster Discussant
American College of Cardiology 59th Annual Scientific Session, Atlanta, Georgia
- March 2010 "Assessment of Sleep Disordered Breathing in Heart Failure"
Meet the Experts Panelist
American College of Cardiology 59th Annual Scientific Session, Atlanta, Georgia
- April 2010 "Renal Denervation for Resistant Hypertension"
9th Annual Ray W. Gifford, Jr. Hypertension Symposium
Invited Speaker, 2010 National Kidney Foundation Spring Meeting, Orlando, FL
- May 2010 "Sympathoexcitation in health and disease: new procedural-based approaches for
sympathoinhibition and implications for disease states"
Physiology seminar, University of North Texas Health Sciences Center, Ft. Worth,
Texas
- May 2010 "Heart Failure in Women and Minorities: What Do We Know and Is It Different?"
Center for Health Disparities
University of North Texas Health Sciences Center, Ft. Worth, Texas
- July 2010 Moderator, HF Case Presentations
Heart failure Management: Established Therapy and New Frontiers
Amelia Island, FL
- September 2010 "Breaking Down the HF Core Measures: A Physician's Approach"
American Heart Association / Get With The Guidelines teleconference (255
participants)
- October 2010 "Cell and genetic therapy in Heart Failure: Late Breaking Trials from ECS
Congress 2010"
Cardiology Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- October 2010 "Navigating the Challenge of Acute Decompensated Heart failure:
Co-Morbidity Management and New Guidelines"
CME Symposium Activity Director; MetroHealth Medical Center, Cleveland, OH
- October 2010 "HF update: relation to pulmonary disease"
Pulmonary conference, MetroHealth Medical Center, Cleveland, OH
- December 2010 "New procedure for the treatment of resistant hypertension"
Interview, WDOK radio
<http://wdok.radio.com/2011/02/06/can-surgery-heal-high-blood-pressure-2/>
- January 2011 "Use of Exercise in the Management of Heart Failure"
Symposium on "New Implications in Cardiac Rehabilitation"
Frontiers of Cardiology, Winter Park, Colorado
- January 2011 Panel Member, Ethics Session
Frontiers of Cardiology, Winter Park, Colorado
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- January 2011 Physician Leadership Academy
MetroHealth Medical Center, Cleveland, OH
- February 2011 "Parasympathetic function, remodeling and progression to heart failure"
Investigator meeting for INOVATE-HF study, Minneapolis, Minnesota
- April 2011 "Therapeutic Renal Denervation: A Paradigm Shift for the Treatment of Hypertension?"
Keynote Address, Annual CV Symposium, Central Baptist Hospital, Lexington KY
- September 2011 "Redistribution of the Venous Reservoir as a Cause of Decompensation in Heart Failure: Diagnostic and Therapeutic Implications"
"Parasympathetic Ganglionic Neurotransmission in Heart Failure"
ISAN/AAS-2011 Satellite Meeting, Frontiers in Therapeutic Targeting of the Autonomic Nervous System in Autonomic Disorders and Cardiovascular Disease, Búzios, Brazil
- October 2011 "Newest Solutions for Decompensated Heart Failure"
Newest Solutions for Cardiac Problems: An Essential Update for Primary Care Physicians; Independence, OH
- October 2011 "Why the scale will never tell the story: a vein tale of non-sloth and non-gluttony"
Cardiology Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- January 2012 Moderator, session on "Heart Failure & Hypertension"
Invited Speaker: "Sympathetic-mediated Volume Redistribution in Heart Failure"
Invited Speaker: "Graduate Medical Education: The Cardiology Fellow of the 21st Century"
Frontiers of Cardiology, Winter Park, Colorado
- February 2012 "Update on Acute Decompensated Heart Failure"
Pulmonary Fellows' Seminar, MetroHealth Medical Center, Cleveland, OH
- March 2012 Invited member and speaker, Sympathetic Nervous System (SNS) Scientific Summit 2012; Prague, Czech Republic
- March 2012 "Why the scale will never tell the story: a vein tale of non-sloth and non-gluttony"
Cardiology Grand Rounds, University Hospitals of Cleveland, Cleveland, OH
- April 2012 "Vagal Stimulation in Heart Failure - What is the Rationale?"
German Cardiology Society, Satellite Symposium: Vagal Stimulation in Heart Failure; Mannheim, Germany
- June 2012 "Why the scale will never tell the story: a vein tale of non-sloth and non-gluttony"
Heart Failure Seminar, Cleveland Clinic Foundation, Cleveland, OH
- July 2012 "When the Levee Breaks: Sympathetic Control of Splanchnic Vessels Leading to Acute Heart Failure"
Invited Lecture, Conference on Autonomic Regulation of Cardiovascular Function in Health and Disease, American Physiological Society, Omaha, Nebraska (USA)
- September 2012 "Autonomic Modulation - For the Periphery or the Heart?"
Invited lecture, Heart Failure Society of America Scientific Sessions, Seattle, WA
- October 2012 "Newest approaches for treatment of hypertension: are procedures and devices ready for prime time?"
Second Annual "Newest Solutions to Cardiology Problems", CME Program, Cleveland, OH
- October 2012 "How to give a terrific talk and present an absorbing abstract"
Cardiology Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- January 2013 29th Annual Frontiers of Cardiology, Winter Park, Colorado
Session Moderator, *Heart Disease Mechanisms*
Speaker: "Vagal Stimulation in Heart Failure – What is the Rationale? Ready for Prime Time?"
Speaker: "Serving the Indigent Population at County/City Hospitals"
- February 2013 "Heart Failure and the INOVATE-HF Clinical Trial"
Interview on "Golden Opportunities", Channel 3 TV, Cleveland, OH
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- March 2013 "Mechanistic links between Sleep Apnea and Acute Decompensated Heart Failure"
Pulmonary Medicine Conference, MetroHealth Medical Center, Cleveland, OH
- March 2013 "Chemoreceptor Hypersensitivity in Hypertension and HF: Clinical relevance and link to sleep apnea"; Cardiology Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- August 2013 "Systolic Heart Failure", parts 1 and 2
Internal Medicine Residents, MetroHealth Medical Center, Cleveland, OH
- September 2013 "What's on the Horizon: Renal Denervation for Resistant Hypertension and other Diseases"; Heart Failure Update program, Independence, OH
- September 2013 "How to give a Terrific Talk and present an Absorbing Abstract"
Medical Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- September 2013 "Mode of Death in Contemporary Heart Failure Patients and the Impact of Structured Exercise: Insights from the HF-ACTION Trial"
Rapid Fire Abstract, Heart Failure Society of America Meetings, Orlando, Florida
- September 2013 "Therapeutic renal denervation – Novel clinical applications"
24th Annual Vascular Biology and Hypertension Symposium
University of Alabama, Birmingham, Alabama
- September 2013 "Patient Selection, Methods and Techniques Necessary to Perform the Procedure" And "Long Term Results, Complications / Limitations and the Future Perspectives"
Session entitled "Critical Appraisal from Sympathetic Renal Denervation"
Joint session of the Brazilian Congress of Cardiology and the American Heart Association; Rio de Janeiro, Brazil
- September 2013 "Target Doses of Cardioprotective Agents Reduce Risk of Cardiovascular Hospitalization in HF Patients Compared to Lower Doses"
Research Day, MetroHealth Medical Center, Cleveland, OH
- October 2013 Panel member, Case Scenarios: Protocol, and Case Scenarios: Renal Denervation PRESERVE investigator meeting
The National Conference Center, Washington DC
- November 2013 "Physician Scientist Career Paths", Physician Scientist Seminar Series, Medical Student Cardiology Organization and the Medical Student Clinical Research Club
University of North Texas Health Sciences Center, Ft. Worth, TX
- November 2013 "Chemoreceptor Hypersensitivity in Hypertension and HF: Clinical relevance and link to sleep apnea"
Department of Integrative Physiology, UNTSC, Ft. Worth, TX
- November 2013 "Autonomic Modulation of Venous Capacitance in the Pathophysiology of Acute HF"; Vascular Biology Working Group Global Chapter Meeting at the American Heart Association meetings, Dallas, Texas
- September 2014 "Updates in Cardiology: exercise and implanted hemodynamic monitoring in HF"
Medical Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- September 2014 "How to Stop Poisoning and Love the (Redistribution) Syndrome"
Hyde Park presentation, Annual Scientific Meetings of the Heart Failure Society of America, Las Vegas, Nevada
- October 2014 "Matthew N. Levy: The Gentleman Researcher and Hunter of the Wild Vagus"
Matthew N. Levy Symposium
Department of Physiology and Biophysics, CWRU, Cleveland, OH
- November 2014 "Strategies for Reducing HF readmissions"
Express Care provider retreat, The MetroHealth System, Cleveland, OH
- April 2015 "How to give a terrific talk and present an absorbing abstract"
Cardiology Grand Rounds, MetroHealth Medical Center, Cleveland, OH
- May 2015 "Risk-Benefit of Diuretic Therapy in Heart Failure"
Invited Speaker, American Society of Hypertension Annual Scientific Meeting
Hypertension Highlights for the Hypertension Specialist 2015—Heart Failure
New York, New York
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- June 2015 "Current Approaches and Future Directions in the Management of Patients with Resistant Heart Failure"; Invited Speaker, Cardiology 2015
Sponsored by the Georgia Chapter of the ACC and Piedmont Heart Institute
The Meritage Resort and Spa, Napa Valley, California
- July 2015 "How to Give a Terrific Talk and Present an Absorbing Abstract"
MetroHealth Resident Lecture Series
- September 2015 "What is the Best Way to Measure Congestion in the Patient with Heart Failure?"
Session Co-Moderator
19th Annual Scientific Meeting of the Heart Failure Society of America
National Harbor, Maryland
- November 2015 "Current Approaches and Future Directions in the Management of Patients with Resistant Heart Failure"; Invited Speaker
Northern New England Chapter of the ACC Annual Meeting. Portsmouth, NH
- April 2016 ["ACC 2016: Recent Therapeutic Updates in the Management of Patients with Reduced Ejection Fraction Heart Failure"](#)
Online CME program (with James Januzzi, MD, and Scott Solomon, MD)
Annual Scientific Meetings of the Heart Failure Society of America, Orlando, FL
- September 2016 "Clinical Fundamentals: The Hemodynamics of HF", session moderator
"Fundamental Hemodynamics in HFrEF and HFpEF", speaker
"Congestion vs. Volume Overload: Pathophysiologic Roles of the Veins and Heart", speaker
"Guideline Recommendations and Quality Standards for Patient Education, Self-Care, and Monitoring Caregiver Support: Role of the Multidisciplinary Care Team", speaker, CME Symposium entitled ["Interpreting Therapeutic Advancements and Addressing Clinical Challenges in Heart Failure Management"](#)
- November 2016 American Heart Association Scientific Sessions 2016
"Recently Approved Agents for Management of Chronic Heart Failure", speaker, CME Satellite Symposium entitled ["Applying Guideline-Recommended and Recent Evidence-Based Therapies in the Treatment of Chronic Heart Failure"](#)
- November 2016 American Heart Association Scientific Sessions 2016
Poster Professor: "New Insights: Digoxin, Diuretics, Nitrates, and Aspirin"
- December 2016 ["AHA 2016: Recent Therapeutic Updates in the Management of Patients with Reduced Ejection Fraction Heart Failure"](#)
Online CME program (with Mariel Jessup, MD, and Lee Goldberg, MD)
- January 2017 "Chemohypersensitivity and Autonomic Modulation of Venous Capacitance"
HF Research Seminar, Cleveland Clinic Foundation
- February 2017 "Chemohypersensitivity and Fluid Redistribution in Heart Failure: a Vein Tale of why the scale will never tell the story"
[Cardiology Grand Rounds, Brigham and Women's Hospital](#), Boston, MA
- February 2017 "PI Responsibilities in Conducting Clinical Research"; Invited talk
Investigator Training Day Program, The MetroHealth System, Cleveland, OH
- March 2017 "Chronic Heart Failure: New Therapeutic Options for Improving Patient Outcomes"
Grand Rounds, Nathan Littauer Hospital, Gloversville, NY
- April 2017 "Chronic Heart Failure: New Therapeutic Options for Improving Patient Outcomes"
Wilmington VA Medical Center, Wilmington, DE
- May 2017 "Heart Failure: What's New Around the World--and at MetroHealth"
Medical Grand Rounds, The MetroHealth System, Cleveland, OH
- July 2017 "Chronic Heart Failure: New Therapeutic Options for Improving Patient Outcomes"
Grand Rounds, Conemaugh Memorial Medical Center, Johnstown, PA
- July 2017 "PI Responsibilities in Conducting Clinical Research"; Invited talk
Investigator Training Day Program, The MetroHealth System, Cleveland, OH
- August 2017 "Chronic Heart Failure: New Therapeutic Options for Improving Patient Outcomes"
LECOM Health-Millcreek Community Hospital MCH Education Center, Erie, PA
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- September 2017 “Challenging Cases in the Management of HF: Individualizing Therapy to Optimize Outcomes and Reduce Admissions
[CERC Multidisciplinary Cardio-Endo-Renal Collaborative](#), New York, NY
- September 2017 “Life and Career of Dr. Matthew Levy: The Gentleman Researcher”
[3rd Annual Matthew Levy Lecture](#), Department of Physiology and Biophysics
Case Western Reserve University, Cleveland, OH
- December 2017 “[Role of the Splanchnic bed in the Pathogenesis of Heart Failure](#)”
Invited speaker, [Device Therapies for Heart Failure](#) meeting, Berlin, Germany
Also served as a panelist for the session
- February 2018 “Fluid vs. Congestion in Heart Failure: Shifts in volume, thinking, and therapeutics”
Cardiology Grand Rounds, Tufts University Medical Center, Boston, MA
- February 2018 “Screening for study patients with hypertension: the MetroHealth experience”
“Break the Tension: Redefining Hypertension Therapy”
Invited Panalist, ROX Investigator meeting, Atlanta, Georgia
- March 2018 “Rethinking Congestion in Heart Failure: Shifts in Volume and First-In-Man
Therapeutics, Cardiology Grand Rounds, The MetroHealth System, Cleveland, OH
- March 2018 “Acute Heart Failure: a Perfect Storm of fluid redistribution, accumulation, and
chemohypersensitivity”; Pulmonary Fellows conference
The MetroHealth System, Cleveland, OH
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