

CURRICULUM VITAE
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1) Personal data

Title and Address: Professor of Medicine, Physiology, and Biophysics, Case Western Reserve University
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Education

Degrees:

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
1995-1999	Clinical Investigator, Louis Stokes VA Medical Center, Cleveland, Ohio
1994-2006	Director, Heart Failure Program, Louis Stokes VA Medical Center, Cleveland, Ohio
2000	Acting Chief, Cardiology Section, Louis Stokes VA Medical Center, Cleveland, Ohio
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

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

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*

6) Professional Service

Study Sections:

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:

1991-92; 1995-2007 Abstract reviewer, American Heart Association Scientific Sessions
2012-2016 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 16th 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, ACC
2006-2009 Chairman, Planning Committee, Carl J. Wiggers Memorial Lecture, Ohio Chapter, ACC
2012-2015 Research Reception Planning Committee, Cleveland Metro Division of the AHA

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 CMS)
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
Member, Clinical Advisory Committee, Robert Wood Johnson Foundation
- 2009 Advisory Board on Hyponatremia, Otsuka Pharmaceuticals, McClean, 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

7) Hospital and University Service Activities

- 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-current	Associate Director of Clinical Informatics, Heart and Vascular Center The MetroHealth System, Cleveland, OH
2015-2016	Chair, StorySLAM Committee, Heart and Vascular Center The MetroHealth System, Cleveland, OH

8) Teaching Activities

Teaching

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
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 Bibevski
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

1992-1993	Toru Kinugawa, MD, Post-doctoral Fellowship, American Heart Assoc, 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 Affiliate - "The role of norepinephrine, PGE ₂ , and VIP in congestive heart failure"
1996	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

2014-2017 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 vesnarinone in heart failure; Site PI
Sponsor: Otsuka America Pharmaceutical, Inc.
- 1996-2004 **PEACE: Prevention of Events with Angiotensin Converting Enzyme Inhibition**; Site PI (also on Steering Committee for this study)
Sponsor: NIHHLBI
- 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: "Metoprolol Randomized Intervention Trial in Congestive Heart Failure**; Site PI
Sponsor: Astra USA, Inc.
- 1997-1998 **IMPRESS: Inhibition of Metallo Protease by BMS-186716 (Omapatrilat) in a Randomized Exercise and Symptoms Study 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 Heart Failure Assessment of Reduction in Mortality and Morbidity**; 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: "Omapatrilat Vs. Enalapril Randomized Trial of Utility in Reducing Events**; 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: Warfarin and Antiplatelet Therapy in Chronic Heart Failure**, Site PI
Sponsor: Department of Veterans Affairs CSP #442
- 2001-2004 **A-HeFT: African-American Heart Failure Trial**, 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 Darbeoetin alfa Treatment on Mortality and Morbidity in HF Subjects with Symptomatic Left Ventricular Systolic Dysfunction and Anemia: Reduction of Events**
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- with Darbepoetin alfa in Heart Failure Trial; Site co-PI and member, Steering Committee and US National Leadership
Sponsor: Amgen Inc.
- 2007-2009 **PROTECT**: Placebo-controlled Randomized study of the selective A1 adenosine receptor antagonist KW-3902 for patients hospitalized with acute HF and volume 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 **BA**sed 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-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
Sponsor: Canadian Institutes for Health Research (CIHR) and Philips-Respironics Inc.
- 2010-2013 Hyponatremia Registry, Site PI
Sponsor: Otsuka Pharmaceuticals
- 2010-2015 **INOVATE HF**: **IN**crease Of **VA**gal **TON**E in chronic Heart Failure, Site PI
Sponsor: BioControl Medical, 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
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- 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

(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.](#)
5. [Cohen MD, Finberg J, Dibner-Dunlap M, Yuih SN, Thames MD. Effects of desipramine hydrochloride on peripheral sympathetic nerve activity. Am J Physiol. 1990 Apr;258\(4 Pt 2\):R876-82](#)
6. [Dibner-Dunlap ME, Thames MD. A simplified technique for the production of heart failure in the dog by rapid ventricular pacing. Am J Med Sci. 1990 Nov;300\(5\):288-90.](#)
7. [Sopher SM, Smith ML, Eckberg DL, Fritsch JM, Dibner-Dunlap ME. Autonomic pathophysiology in heart failure: carotid baroreceptor-cardiac reflexes. Am J Physiol. 1990 Sep;259\(3 Pt 2\):H689-96.](#)
8. **Dibner-Dunlap ME**, and Thames MD: Abnormalities of baroreflex control in heart failure. Heart Failure 6(1):12-16, 1990.
9. [Thames MD, and Dibner-Dunlap ME: Baroreflexes in Congestive Heart Failure. p. 256-270; in Baroreceptor reflexes: Integrative functions and clinical aspects, PB Persson and HR Kirchheim, eds.; Springer-Verlag, Heidelberg 1991.](#)
10. [Dibner-Dunlap ME, Cohen MD, Yuih SN, Thames MD. Procainamide inhibits sympathetic nerve activity in rabbits. J Lab Clin Med. 1992 Mar;119\(3\):211-5.](#)

11. [Dibner-Dunlap ME, Thames MD. Control of sympathetic nerve activity by vagal mechanoreflexes is blunted in heart failure. Circulation. 1992 Dec;86\(6\):1929-34.](#)
12. [Dibner-Dunlap M. Arterial or cardiopulmonary baroreflex control of sympathetic nerve activity in heart failure? Am J Cardiol. 1992 Dec 15;70\(20\):1640-2.](#)
13. [Thames MD, Kinugawa T, Dibner-Dunlap ME. Reflex sympathoexcitation by cardiac sympathetic afferents during myocardial ischemia. Role of adenosine. Circulation. 1993 May;87\(5\):1698-704.](#)
14. [Dibner-Dunlap ME, Kinugawa T, Thames MD. Activation of cardiac sympathetic afferents: effects of exogenous adenosine and adenosine analogues. Am J Physiol. 1993 Jul;265\(1 Pt 2\):H395-400.](#)
15. [Thames MD, Kinugawa T, Smith ML, and Dibner-Dunlap ME: Abnormalities of baroreflex control in congestive heart failure. Journal of the American College of Cardiology 22\(4 Suppl\):56A-60A, 1993.](#)
16. Thames MD, **Dibner-Dunlap ME**, and Minisi AJ: Cardiovascular Reflexes During Myocardial Ischaemia and Infarction. p. 235-255; in Cardiovascular reflex control in health and disease, R Hainsworth and AL Mark, eds.; WB Saunders Co. Ltd., London 1993.
17. Thames MD, **Dibner-Dunlap ME**, and Smith ML: Mechanisms of Arterial Baroreflex Control; in Vagal control of the heart--Experimental basis and clinical implications, MN Levy and PJ Schwartz, eds.; Futura Publishing Co. Mt. Kisco, NY, 1994.
18. [Supinski G, DiMarco A, Dibner-Dunlap M. Alterations in diaphragm strength and fatigability in congestive heart failure. J Appl Physiol. 1994 Jun;76\(6\):2707-13.](#)
19. [Jung R, Dibner-Dunlap ME, Gilles MA, Thames MD. Cardiorespiratory reflex control in rats with left ventricular dysfunction. Am J Physiol. 1995 Jan;268\(1Pt 2\):H218-25.](#)
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(C) Abstracts

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89. Vallakati A, Reddy S, **Dunlap M**, Taylor D: Role of Statins in Heart Transplant Recipients: A Meta-Analysis. *Circulation* 2015.
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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
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
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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"; Peter Bent Brigham 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?"
The First WHF Global Conference on Cardiovascular Clinical Trials, Hong Kong, China

November 2001 "Trial Presentation: IMPRESS/OVERTURE"
The First WHF Global Conference on Cardiovascular Clinical Trials, Hong Kong, China

November 2001 "Strategies and Designs of Clinical Trials in Heart Failure – What Are Appropriate Endpoints?"
The First WHF Global Conference on Cardiovascular Clinical Trials, Hong Kong, China

November 2001 "Update on Pathophysiology and Treatment of Heart Failure"
Medical Grand Rounds, Logan Hospital, Logan, West Virginia

February 2002 "Design and implementation of Cardiovascular Clinical Trials"
University Hospitals of Cleveland Residents conference

February 2002 "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 blockers 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
- 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-Chairman, session on "Featured Research: Novel Neuronal Mechanisms of
Cardiovascular Dysregulation", American Heart Association Meeting, Orlando, Florida
- November 2003 Co-Chairman, 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
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- December 2003 Chairman, 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 20th Scientific Meeting of the International Society of Hypertension, Sao Paulo, Brazil
Submitted presentations: "New approaches in heart failure management"
"ARB's in HF: new evidence from the CHARM trial"
- 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 patient 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
"Recent advances in heart failure treatment: Far beyond leaves and snake venom"
- April 2004 "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?"
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- July 2004 Cardiology conference, University Hospitals of Cleveland
"Heart Failure with an Emphasis on Ischemia: Pathophysiology or 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 patient 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"
Vascular Biology Working Group regional faculty meeting, New York, New York
- October 2004 "Neurohormonal blockade in HF: Have we reached the an upper limit?"
Vascular Biology and Hypertension Research Seminar
University of Alabama, Birmingham, Alabama.
- October 2004 "The unique aspects of PEACE vs. HOPE and EUROPA:
Comparison of baseline characteristics."
Satellite Symposium, Canadian Cardiovascular Congress, Calgary, Alberta, Canada
- November 2004 "Neurohormonal blockade in HF: Have we reached the upper limit?"
Cardiology Grand Rounds, University of Missouri, Columbia, Missouri
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- 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 ACA 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"
American Heart Association Scientific Sessions, Dallas, Texas
- January 2006 "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
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- 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"
American College of Cardiology Scientific Sessions, Atlanta, Georgia
- March 2006 Clinical Controversies: Pharmacologic Therapy for Diastolic Heart Failure
"Angiotension-Receptor Blockers--Opening Arguments/Rebuttal, Antagonist"
American College of Cardiology Scientific Sessions, Atlanta, Georgia
- March 2006 Latin American Regional Cardiovascular Meeting, Guatemala City, Guatemala
"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 "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-I"
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 Outcome 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"
CCH Providers Retreat, MetroHealth System, Cleveland, Ohio
- October 2006 "Cardiac Monitoring Devices for CHF: are noninvasive alternatives just as good?"
Cardiac Monitoring Devices for CHF, invited speaker and panel member
Transcatheter Cardiovascular Therapeutics Annual Meeting, Washington, DC
- October 2006 "Implications of Risk Factor Reduction: Clinical Trials and Meta-Analyses" and
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- "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 " β 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
Heart Failure"; 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 β -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,
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- Post-Discharge Monitoring"
5th International Meeting, Acute Heart Failure Syndromes
Clinical Trials & the Continued Need to Improve Post Discharge Outcomes
Stressa, Italy
- 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 Heart Failure 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_surgic.html
- May 2009 "Reviewing the Clinical Impact of β -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"
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- October 2009 Resident noon conference, MetroHealth Medical Center, Cleveland, OH
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
- 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
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- 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
- 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"
Speaker: "Sympathetic-mediated Volume Redistribution in Heart Failure"
Speaker: "Title: "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"
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- 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
- 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:"
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- 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
- 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. [http://academiccme.com/courses/acc-2016-recent-therapeutic-updates-in-
the-management-of-patients-with-reduced-ejection-fraction-heart-failure](http://academiccme.com/courses/acc-2016-recent-therapeutic-updates-in-the-management-of-patients-with-reduced-ejection-fraction-heart-failure)
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