

Curriculum Vitae

Eugene S. Chung, MD, FACC

President and Chief Executive Officer, The Christ Hospital Cardiovascular Associates
Chief of Cardiology and Medical Director of Heart and Vascular Service Line, The Christ Hospital

Contact Information

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Education and Training

1999 Advanced heart failure and transplantation, Columbia University, NY, NY
1995-1996 Chief fellow in Cardiology, University of Massachusetts Medical Center
1993-1996 Fellow in cardiology, University of Massachusetts Medical Center
1992-1993 Resident in internal medicine, University of Massachusetts Medical Center, Worcester, MA
1990-1992 Resident in internal medicine, Mount Sinai Medical Center, NY, NY
1985-1990 Doctor of Medicine, University of Massachusetts Medical School, Worcester, MA
1988-1989 Medical Student Research Fellowship from the American Heart Association
1981-1985 Bachelor of Science, Molecular Biophysics and Biochemistry, Yale University, New Haven CT

Board Certifications

2011-present National Board of Echocardiography
2010-present American Board of Internal Medicine - Advanced Heart Failure and Transplantation
1997-present American Board of Internal Medicine - Cardiovascular (recertified 2007)
1993-2003 American Board of Internal Medicine

Medical Licensures

Active Ohio, Indiana
Inactive Massachusetts, New York

Clinical Positions

- 2000-present Clinical Cardiologist, The Christ Hospital, Cincinnati, Ohio
Attending, Advanced Heart Failure Program
Attending, Echocardiography Laboratory (structural heart imaging support)
Attending, Cardiac Catheterization (non-interventional)
- 1999 Visiting Assistant Professor of Circulatory Physiology and Heart Transplantation, Columbia Presbyterian Hospital, New York, NY
- 1996-2000 Assistant Professor of Medicine, Division of Cardiology, Univ. of Massachusetts Medical Center
Attending in the Heart Failure Wellness Center.
Associate Director of the Heart Failure Wellness Center.
Attending in the Heart Station (non-invasive Cardiology)
Attending in the Cardiac Catheterization Laboratory

Administrative Positions

- 2018-Present Medical Director of Heart and Vascular Service Line, The Christ Hospital
- 2018-Present Chief of Cardiology, The Christ Hospital
- 2015-present Chief Executive Officer and President, The Christ Hospital Cardiovascular Associates
- 2013-2016 Chairman, Peer Review Committee, The Heart and Vascular Center, The Christ Hospital
- 2014-2015 Director of Advanced Heart Failure Program, The Christ Hospital
- 2014 Founder, Advanced Hypertension Program, The Christ Hospital
- 2006-2014 Outcomes Director, The Heart and Vascular Center at The Christ Hospital, Cincinnati, OH
- 2006-present Associate Professor of Clinical Medicine, The Ohio State Medical School, Division of Cardiology
- 2005-2011 Chairman of the Information Technology Committee, EMR implementation
Ohio Heart and Vascular Center, Cincinnati, OH
- 2000-present Associate Medical Director and Director of the Heart Failure Division,
The Carl and Edyth Lindner Clinical Trials Center, The Christ Hospital, Cincinnati, OH
- 2000 Founding Director of Heart Failure Program, Ohio Heart and Vascular Center,
Cincinnati, OH

Professional Society Membership

- 2011-present International Society for Heart and Lung Transplantation
- 2004-present American Society of Echocardiography
- 1999-present Heart Failure Society of America
- 1998-present American Heart Association
- 1998-present American College of Cardiology

Honors and Awards

- 2014 Consultant of the year, from University of Cincinnati Family Medicine Residency
- 2009- Best Doctors in Cincinnati (Cincy Magazine)
- 2008 Selected for inclusion in Marquis Who's Who in America, Medicine
- 2007- Elected by peers for inclusion in Best Doctors in America®
- 2006- Best Doctors in Cincinnati, (Cincinnati Magazine)

Advisory and Institutional Committees

2014-2016 SNMMI/ASNC Cardio Think Tank on Molecular Imaging / ASNC Nuclear Cardiology Board Prep

2013-present Co-management Advisory Board, Medtronic Inc.

2013 Aquapheresis Advisory Board, Gambro Inc.

2011-2012 Board Member, Healthbridge (Health Information Exchange Organization)

2011 Scientific Advisory Board, Implantable Hemodynamic Monitor, Medtronic, Inc.

2009-present Board Member, The Christ Hospital Cardiovascular Associates

2008-2012 Information Technology Advisory Committee, The Christ Hospital

2008-2009 Scientific Advisory Board, Blackwell-Curie Project, Medtronic

2007-2012 Membership Committee of the Heart Failure Society of America

2007-present CLOSE THE GAP, steering committee member. (Sponsor: Boston Scientific) Committee working to reduce gender and ethnic disparities in cardiovascular care.

2007-2008 Sudden Cardiac Arrest Board, Advisory Board Member (Sponsor: Medtronic) Committee organized to work toward developing strategies to identify and treat patients at high risk of sudden cardiac arrest.

2005-2006 The Christ Hospital Computerized Physician Order Entry Project

2002-2005 Member, Heart Failure Board, Mercy Hospitals, Cincinnati

Reviewer Activities

2014-present Journal Reviewer, Cardiology

2013-present Editorial Board Member, Journal of Cardiac Failure

2011-present Journal Reviewer, American Heart Journal

2011-present Journal Reviewer, Circulation, Imaging

2010-present Journal Reviewer, European Heart Journal

2010-present Journal Reviewer, Journal of Cardiac Failure

2010-present Journal Reviewer, European Journal of Heart Failure

2010-present Journal Reviewer, Circulation, Heart Failure

2009-present Journal Reviewer, Circulation

2008-present Journal Reviewer, Lancet

2008-present Journal Reviewer, JACC

2007-present Journal Reviewer, Heart and Vessels

2006-present Abstract Grader: American College of Cardiology

2006-present Abstract Grader: American Heart Association

2006-present Journal Reviewer, American Journal of Cardiology

Research Activities

The Christ Hospital (2000-present)

National Steering Committee:

AQUARIUS, Multicenter study to evaluate the effect of implanted hemodynamic pulmonary artery pressure sensor in heart failure patients. Sponsor: Medtronic

RETRO-HF, (National co-PI) multicenter randomized trial of intra-coronary sinus injection of the gene encoding for SDF in ischemic cardiomyopathy. Sponsor: Juventas

STOP-HF, (National PI) multicenter randomized trial of intramyocardial injection of the gene encoding for SDF in ischemic cardiomyopathy. Sponsor: Juventas

PROMPT, multi-center randomized trial of peri-infarct pacing in the early post MI period to attenuate LV remodeling. Sponsor: Medtronic

INDICATE, multicenter non-randomized study to evaluate the accuracy of a risk scoring system using remote monitoring and serial questions. Sponsor: Medtronic

Core Measure Study, a multicenter study to evaluate the effect of adding a core measure to evaluate for device use to the existing set of 4 core measures for hospitalized HF patients. Sponsor: Boston Scientific

Optimum-HF, a two center study of hospitalized HF patients studying the relationship between volume removal with ultrafiltration, intrathoracic impedance and T-wave alternans status. Sponsor: Medtronic

PROSPECT (Chairman of Steering and Publication Committees), a multicenter prospective study of echocardiographic PREDICTORS of clinical response after biventricular pacing. Sponsor: Medtronic

BLOCK HF, a prospective, multicenter, randomized, blinded study of biventricular pacing vs. conventional pacing in patients with conventional indication for PREVENTION of heart failure. Sponsor: Medtronic

MENDMI, a multicenter pilot study of early (3-14 days) implantation of biventricular ICD vs. ICD after large MI to attenuate remodeling. Sponsor: Boston Scientific.

National Trial Committee Activity:

GUIDE HF (Chairman) – Data Safety Monitoring Board (Sponsor: Abbott)

SOLVE CRT (Chairman) - End Point Committee (Sponsor: EBR Systems)

BEAT-HF: multicenter study of baroreceptor modulation in heart failure. Sponsor: CVRx

CardioMEMS_post approval study: Sponsor: St. Jude Medical.

CHAMPION: a prospective, multicenter, randomized study of implanted pulmonary artery pressure monitor in managing heart failure. Sponsor: CardioMEMS, Inc

FREEDOM: a prospective, multicenter study of multiple serial AV optimizations in CRT patients. Sponsor: St.Jude Medical

STAMINA-HeFT: a prospective, multicenter, randomized, double blind study of Darbopoeitin vs. placebo for anemia in heart failure. Sponsor: AMGEN

InSync III Marquis: a prospective, multicenter, study of safety and efficacy of an investigational LV lead. Sponsor: Medtronic, Inc.

Single Center Studies (Lindner Clinical Trials Center at The Christ Hospital):

TUF: ultrafiltration vs. usual care vs. usual care+tolvaptan in acute decompensated HF patients. Randomized, prospective. Sponsor: Otsuka

Close the Gap: Health screening of College freshmen at Central State University to test the relationship between baseline health status and academic success at a Historically Black University.

IPOD_DHF: serial weekly monitoring of heart failure compass data from an implanted loop recorder in diastolic HF patients

ASSIST: Principal Investigator: Safety and efficacy of intermittent HOME infusion of nesiritide in advanced heart failure patients. Sponsor: Scios, Inc.

OPIS: Co-Principal Investigator: Biventricular pacer for post MI, EF<30, narrow QRS duration to assess post infarct remodeling. Sponsor: Guidant, Inc.

CHAMP: Principal Investigator: Two year follow-up of OPIS patients through echocardiography at six month intervals

MATCH: Principal Investigator: Comparison of ultrafiltration and usual care for decompensated HF patients. Sponsor: Scios, Inc.

CVOP: Principal Investigator: Effect of HF disease management on financial and clinical outcomes within a cardiology practice.

Selected Multi-center Clinical Trials (Site Principal Investigator):

PARACHUTE: apical exclusion device in chronic ischemic HF

SYMPPLICITY III: renal denervation for resistant HTN

RELAX: serelaxin in diastolic HF

Reduce-HF: Randomized study of Chronicle implanted hemodynamic monitor for HF management (Sponsor: Medtronic)

PROTECT: adenosine A1 receptor antagonist in decompensated HF

PEERLESS-HF: HeartNet device in systolic HF

CVRx: electrical stimulation of carotid baroreceptor in hypertension

BREAK: Alagebrium in Diastolic HF

BLOCK HF: Biventricular pacing to prevent HF due to pacing for AV block

PROSPECT: Echo based predictors of response to biventricular pacing

MENDMI: Early (<14 days) CRT to attenuate remodeling in post MI HF.

InSync Registry: Biventricular pacemaker registry

IMPROVE-HF: HF outcomes registry

FUSION: Intermittent home nesiritide in advanced heart failure

Aquavit: Tolvaptan in heart failure

REVIVE: Levosimendan in decompensated heart failure patients

METEOR: Tolvaptan in heart failure

EVEREST: Tolvaptan in heart failure

ADVANCENT: registry (LV dysfunction registry)

I-PRESERVE: Irbesartan in diastolic HF

DILIPO: Chronic glucagon like peptide in HF

TOPCAT: Spironolactone in diastolic heart failure

Clinical Trials (Site Co-PI):

STAMINA: darbopoetin to treat anemia in HF

InSync III Marquis: V-V timing in CRT for HF

PEACH: EECF in heart failure

DIACRIN: myofibroblast transplantation in HF

STICH: CABG vs. VABG/LV reconstruction in end stage HF

ESCAPE: Enoximone (PDE inhibitor) in conjunction with beta blockade for HF

University of Massachusetts Medical Center (1996-2000):

Neurohumoral and hemodynamic mechanisms of the transition from compensated to decompensated heart failure, using isolated perfused rat heart model and small animal echocardiography.

Clinical Trials (Site PI):

ENABLE II: a multicenter study to evaluate Bosentan, an endothelin II receptor antagonist, in heart failure.

Clinical Trials (Site Co-PI):

Val-HeFT: study of valsartan in heart failure

SCD-HeFT: study of amiodarone and ICD in heart failure

Valiant: study of valsartan in post MI heart failure

CONTAK: study of biventricular pacing in heart failure

Fellowship:

Role of Adenosine in modulating adrenergic subsensitivity in a rat model of left ventricular hypertrophy.

Mentor: Theo E. Meyer, MD, D.Phil. Associate Professor, Department of Medicine, University of Massachusetts Medical Center, Director of Heart Failure Clinic.

Characterization of atherosclerotic tissue with Intravascular Ultrasound
Correlation of IVUS morphology with post coronary interventional outcomes.

Mentor: Henri F. Cuenoud, MD. Associate Professor, Departments of Medicine and Pathology, University of Massachusetts Medical Center.

Residency:

Regulation of the JE gene, PDGF inducible gene whose product is a vascular smooth muscle cell mitogen and a chemotactic agent monocytes.

Expression and regulation of the Fibrillin gene in aortic smooth muscle cells (mutation linked to Marfan's syndrome).

Mentor: Mark B. Taubman, MD. Assistant Professor, Brookdale Center for Molecular Medicine, Mount Sinai Hospital.

Medical School:

Cardiac Pathology

Pathophysiology of acute coronary syndromes, autopsy series.

Prevalence of intraplaque hemorrhages, ruptures, fissures.

Neuropeptide modulation of arteriolar dilation and capillary leakage, studied in the rat cremaster muscle.

Mentors: Henri F. Cuénoud, MD (Assistant Professor of Pathology and Cardiovascular Medicine), Susan E. Leeman, PhD (Professor of Physiology), Guido Majno, MD (Professor and Chairman of Pathology), University of Massachusetts Medical School.

Renal Physiology

Mechanism of Renin Secretion from Juxtaglomerular cells, studied in rabbits, (the role of calcium in the chemiosmotic theory of granular fusion in renin secretion).

Chun Sik Park, MD, PhD, Associate Professor of Physiology, University of Massachusetts Medical Center.

Undergraduate:

Structure of the basal body proteins associated with prokaryotic flagella.

Mentor: Robert MacNab, PhD, Professor of Molecular Biophysics and Biochemistry, Yale University.

Expression and control of alpha interferon gene expression.

Mentor: Peter Lengyel, PhD, Professor of Molecular Biophysics and Biochemistry, Yale University.

PUBLICATIONS

Manuscripts

1. Chun Sik Park, Thomas H. Honeyman, **Eugene S. Chung**, JS Lee, David S. Sigmon, David CS Fray. Involvement of Calmodulin in Mediating Inhibitory Action of Intracellular Calcium on Renin Secretion. *Am J Physiol* 1986; 251:F1055-F1062.
2. **Eugene S. Chung**, Susan E. Leeman, Henri F. Cuenoud. The Effect of Neonatal treatment with Capsaicin on Focal Arteriolar Insudation. *Microvascular Research*, 1991;42 (3):316-324.
3. **Eugene S. Chung**, Stefano Perlini, Gerard P. Aurigemma, Richard A. Fenton, James G. Dobson, Jr., Theo E. Meyer. Effects of chronic adenosine uptake blockade on adrenergic responsiveness and left ventricular chamber function in pressure overload hypertrophy in the rat. *Journal of Hypertension* 1998;16 (12):1813-1822.
4. **Eugene S. Chung**, Stefano Perlini, Gerard Aurigemma, Richard A. Fenton, James G. Dobson, Jr., Theo E. Meyer. Chronic Adenosine Uptake Blockade in Pressure Overload Hypertrophy in the Rat: Effects on Adrenergic Responsiveness and Left Ventricular Chamber Function.. *J Hypertension*, 1998; Dec 16 (12, pt.1):1813-22.
5. Stefano Perlini, Edmon P. Khoury, Gavin R. Norton, **Eugene S. Chung**, Richard A. Fenton, James G. Dobson, Jr., Theo E. Meyer. Adenosine Mediates Sustained Adrenergic Desensitization in the Rat Heart Via Activation of Protein Kinase C. *Circ. Res.* 1998; 83 (7):761-771.
6. Theofanie Mela, Theo E. Meyer, Linda A. Pape, **Eugene S. Chung**, Gerard Aurigemma, Bonnie H. Weiner. Coronary dimension to left ventricular mass ratio is decreased in non-ischemic cardiomyopathy. *Am J Cardiol* 1999; 83:1277-1280.
7. Gavin R. Norton, Angela K. Woodiwiss, Robert J. McGinn, Mojca Lorbar, **Eugene S. Chung**, Thomas W. Honeyman, Richard A. Fenton, James G. Dobson, Jr., Theo E. Meyer. Adenosine A_{2a} Receptor Activation Modulates A₁ Receptor-Mediated Antiadrenergic Effects in the Rat Myocardium. *Am J Physiol* 1999; 276: H341-349.
8. Mojca Lorbar, Katarina Skalova, Arash Nabi, **Eugene S. Chung**, Richard A. Fenton, James G. Dobson Jr, Theo E. Meyer. Norepinephrine concentrations in the epicardial transudate reflect early

changes in adrenergic activity in the isolated perfused heart. *J Mol Cell Cardiol.* 2000 Sep;32(9):1695-701

9. Angela J. Woodiwiss, OJ Tsotetsi, S Sprott, EJ Lancaster, Theofanie Mela, **Eugene S. Chung**, Theo E. Meyer, Gavin R. Norton. Reduction in myocardial collagen cross-linking parallels left ventricular dilatation in rat models of systolic chamber dysfunction. *Circulation.* 2001 Jan 2;103(1):155-60.
10. Theo E. Meyer, **Eugene S. Chung**, Stefano Perlini, Gavin R. Norton, Angela J. Woodiwiss, Mojca Lorbar, Richard A. Fenton, James G. Dobson. Antiadrenergic Effects of Adenosine in Pressure Overload Hypertrophy. *Hypertension.* 2001 Mar;37(3):862-868.
11. Richard A. Fenton, **Eugene S. Chung**. Chronic ethanol enhances adenosine antiadrenergic actions in the isolated rat heart. *Alcohol Clin Exp Res.* 2001 Jul;25(7):968-75.
12. Gavin R. Norton, Angela J. Woodiwiss, William H. Gaasch, Theofanie Mela, **Eugene S. Chung**, Gerard P. Aurigemma, Theo E. Meyer. Heart failure in pressure overload hypertrophy. The relative roles of ventricular remodeling and myocardial dysfunction. *J Am Coll Cardiol.* 2002 Feb 20;39(4):664-71.
13. **Eugene S. Chung**, Milton Packer, KH Lo, AA Fasanmade, James T. Willerson. Randomized, double-blind, placebo-controlled, pilot trial of infliximab, a chimeric monoclonal antibody to tumor necrosis factor-alpha, in patients with moderate-to-severe heart failure: results of the anti-TNF Therapy Against Congestive Heart Failure (ATTACH) trial. Anti-TNF Therapy Against Congestive Heart Failure Investigators. *Circulation.* 2003 Jul 1;107(25):3133-40.
14. Mojca Lorbar, **Eugene S. Chung**, Arash Nabi, Katarina Skalova, Richard A. Fenton, James G. Dobson Jr., Theo E. Meyer. Receptors subtypes involved in adenosine-mediated modulation of norepinephrine release from cardiac nerve terminals. *Can J Physiol Pharmacol.* 2004 Nov; 82(11):1026-31.
15. Cheuk Man Yu, William T. Abraham, Jeroen J. Bax, **Eugene S. Chung**, Michelle Fedewa, Stephano Ghio, Christophe Leclercq, Angel R. Leon, John Merlino, Petro Nihoyannopoulos, Dean Notabartolo, Jin Ping Sun, Luigi Tavazzi, on behalf of the PROSPECT Investigators. Predictors of response to cardiac resynchronization therapy (PROSPECT)—study design. *Am Heart J* 2005;149:600-5
16. **Eugene S. Chung**, Santosh G. Menon, Kathleen A. Daly, Jennifer Atkinson, Robertson R, Ibanez K, Dean J. Kereiakes. Safety and Tolerability of Serial Home Infusions of Nesiritide for Advanced Heart Failure. *Am J Cardiol* 2006 May 1;97(9):1370-3.
17. Theodore Chow, Dean J. Kereiakes, Cheryl Bartone, Terri Booth, Edward J. Schloss, Theodore Waller, **Eugene S. Chung**, Santosh G. Menon, Nallamotheu BK, Paul S. Chan. Prognostic Utility of Microvolt T-Wave Alternans in Risk Stratification of Patients with Ischemic Cardiomyopathy. *J Am Coll Cardiol* 2006 47: 1820-1827
18. Charles W. Abbottsmith, **Eugene S. Chung**, Thomas Varricchione, Pierre A. de Lame, Marc A. Silver, Gary S. Francis GS, Arthur Feldman, for the Prospective Evaluation of EECF in Congestive Heart Failure (PEECH) Investigators. EECF Improves Exercise Duration and Peak Oxygen Consumption in Older Patients with Heart Failure: a Subgroup Analysis of the PEECH Trial. *Congestive Heart Failure* 2006, Nov-Dec. 12(6):307-11.

19. John Young, **Eugene S. Chung**, Anu Mital, Santosh G. Menon, Joseph Pastore, Theodore Chow, Dean J. Kereiakes. Early Revascularization and Guideline Based Medical Management Significantly Improves Left Ventricular Function and Short-Term Prognosis in Patients Presenting With Acute Myocardial Infarction and Severe Left Ventricular Dysfunction. *J Invasive Cardiol.* 2006 Nov;18 (11): 540-543
20. **Eugene S. Chung**, Santosh G. Menon, Raul Weiss, Edward J. Schloss, Theodore Chow, Dean J. Kereiakes, Joseph Pastore. Attenuation of Cardiac Remodeling after Recent Myocardial Infarction through Biventricular Pacing. *Congestive Heart Failure* 2007, Jan-Feb. 13(1):9-15
21. Lin Guo, **Eugene S. Chung**, Snow R, Kim L. Miller, Stephen Grossbart, Donald Casey. Redefining Readmissions to Better Reflect the Clinical Course of Heart Failure Patients. *American Journal of Medical Quality*, 3 2007; vol. 22: pp. 98 - 102.
22. Theodore Chow, Dean J. Kereiakes, Cheryl Bartone, Terri Booth, Edward J. Schloss, Theodore Waller, **Eugene S. Chung**, Santosh G. Menon, BK Nallamotheu, Paul S. Chan. Microvolt T-Wave Alternans Identifies Patients with Ischemic Cardiomyopathy Who benefit From Implantable Cardioverter Defibrillator Therapy. *J Am Coll Cardiol.* 2007; 49: 50-58.
23. Anne B. Curtis, Philip B. Adamson, **Eugene S. Chung**, Martin St. John Sutton, F Tang, Seth Worley. Biventricular vs. Right Ventricular Pacing in Heart Failure Patients with AV Block (BLOCK HF): Clinical study design and rationale. *J Cardiovasc Electrophysiol.* 2007 Sep;18(9):965-71. Epub 2007 Jul 27.
24. Theodore Chow, Dean J. Kereiakes, Cheryl Bartone, Terri Booth, Edward J. Schloss. Theodore Waller, **Eugene S. Chung**, Santosh G. Menon, BK Nallamotheu, Paul S. Chan. Microvolt T-Wave Alternans Identifies Patients With Ischemic Cardiomyopathy Who Benefit From Implantable Cardioverter-Defibrillator Therapy. *J. Am. Coll. Cardiol.* 2007;49;50-58
25. **Eugene S. Chung**, Lin Guo, Casey Jr DE, Cheryl Bartone, Santosh G. Menon, Syed Saghir, Anu Mital, Kereiakes DE. Relationship of a Quality Measure Composite to Clinical Outcomes for Patients with Heart Failure. *Am J Med Qual.* 2008 May-Jun;23(3):168-75.
26. **Eugene S. Chung**, Angel R. Leon, Luigi Tavazzi, Jin Ping Sun, Petros Nihoyannopoulos, John Merlino, William T. Abraham, Stephano Ghio, Christophe Leclercq, Jeroen J. Bax, Cheuk Man Yu, John Gorcsan, St John Sutton M, Johan De Sutter, Jaime Murillo. Results of the Predictors of Response to CRT (PROSPECT) Trial: *Circulation.* 2008 May 20;117(20):2608-16. Epub 2008 May 5.
27. Syed Saghir, Cheryl Bartone, Santosh G. Menon, Jayna Brosmer, Dean J. Kereiakes, **Eugene S. Chung**. Comparison of Ultrafiltration, Usual Care, and Usual Care plus Nesiritide in Acute Heart Failure. *Congest Heart Fail.* 2008 Nov-Dec;14(6):298-301.
28. Sharokh Javaheri, A Malik, J Smith, **Eugene S. Chung**. Adaptive Pressure Support Servo-Ventilation, a novel treatment for sleep apnea associated with use of opioids. *J Clin Sleep Med.* 2008 Aug 15; 4(4):321-3.
29. **Eugene S. Chung**, Wojciech Mazur, Santosh G. Menon, Edward J. Schloss, Theodore Chow, Dean J. Kereiakes. Peri-Infarct Pacing with CRT in the Early Post Infarct Phase to Attenuate Long-term Remodeling. In press at *Journal of Cardiovascular Translational Research.* *Current Heart Failure Reports* 2009, 6:37-43

30. Wojciech Mazur and **Eugene S. Chung**. Role of Echocardiography in Cardiac Resynchronization Therapy. *Curr Heart Fail Rep*. 2009 Mar;6(1):37-43
31. Sharokh Javaheri, A Malik, A Smith, **Eugene S. Chung**. The prevalence and natural history of complex sleep apnea. *Journal of Clinical Sleep Medicine*, Vol. 5, No. 3, 2009.
32. Rutger J. van Bommel, Jeroen J. Bax, William T. Abraham, **Eugene S. Chung**, Luis A. Pires, Luigi Tavazzi, Paul J. Zimetbaum, Bart Gerritse, Nina Kristiansen, Stephano Ghio. Characteristics of heart failure patients associated with good and poor response to cardiac resynchronization therapy: a PROSPECT (Predictors of Response to CRT) sub study. *Eur Heart J*. 2009 Aug 30.
33. Von Scheller, Wojciech Mazur, James Kong, **Eugene S. Chung**. Coronary sinus to left atrial communication. *Case Report Med*. 2009;2009:790715. Epub 2009 Aug 26.
34. Kan N. Hor, C Carson, William M. Gottliebson, E Wash, J Wansapura, J Cnota, W Fleck, H Al-khalidi, **Eugene S. Chung**, DW Benson, Wojciech Mazur. Magnetic Resonance Feature Tracking, a Novel Method for Strain Calculation: Comparison with Harmonic Phase Imaging. *JACC Cardiovasc Imaging*. 2010 Feb;3(2):144-51.
35. **Eugene S. Chung**, Rudolph P. Katra, Stephano Ghio, Jeroen J. Bax, Bart Gerritse, Katherine Hilpisch, Brett J. Peterson, David S. Feldman, William T. Abraham. Cardiac Resynchronization Therapy May Benefit Patients with Left Ventricular Ejection Fraction > 35%: a PROSPECT Trial Substudy. *Eur J Heart Fail*. 2010 Feb 11.
36. Paul S. Chan, T Khumri, **Eugene S. Chung**, Stephano Ghio, KJ Reid, Bart Gerritse, BK Nallamothu, John Spertus. Echocardiographic Dyssynchrony and Health Status Response from Cardiac Resynchronization Therapy: Insights from the Predictors of Response to CRT (PROSPECT) Trial. *JACC Cardiovasc Imaging*. 2010 May;3(5):451-60.
37. Rutger J. van Bommel, John Gorcsan, **Eugene S. Chung**, William T. Abraham, FT Gjestvang, Christophe Leclercq, Megan J. Monaghan, Petros Nihoyannopoulos, C Peraldo, Cheuk Man Yu, M Demas, Bart Gerritse, Jeroen J. Bax. Effects of cardiac resynchronisation therapy in patients with heart failure having a narrow QRS Complex enrolled in PROSPECT. *Heart*. 2010 Jul; 96(14):1107-13.
38. Peter T. Mortensen, John M. Herre, **Eugene S. Chung**, Jeroen J. Bax, Bart Gerritse, Margaret Kruijshoop, Jaime Murillo. The effect of left ventricular pacing site on cardiac resynchronization therapy outcome: The results of a PROSPECT sub-study. *Europace*. 2010 Sep 18.
39. **Eugene S. Chung**, Dan Dan, Scott D. Solomon, Alan J. Bank, Joseph Pastore, Andy Iyer, Ron D. Berger, J Franklin, Gregory Jones, Chris Machado, Craig M. Stolen. Effect of Peri-Infarct Pacing Early after Myocardial Infarction: Results of the Prevention of Myocardial Enlargement and Dilatation Post Myocardial Infarction (MENDMI) Study. *Circ Heart Fail*. 2010 Sep 17.
40. Wojciech Mazur, Kan N. Hor, JT Germann, RJ Fleck, HR Al-Khalidi, JP Wansapura, **Eugene S. Chung**, Michael D Taylor, John L. Jefferies, DW Benson, William M. Gottliebson. Patterns of left ventricular remodeling in patients with Duchenne Muscular Dystrophy: a cardiac MRI study of ventricular geometry, global function, and strain. *Int J Cardiovasc Imaging*. 2011 Jan 8.

41. Kan N. Hor, JP Wansapura, HR Al-Khalidi, William M. Gottliebson, Michael D Taylor, RJ Czosek RJ, SF Nagueh, Nandakishore Akula, **Eugene S. Chung**, DW Benson, Wojciech Mazur. Presence of Mechanical Dyssynchrony in Duchenne Muscular Dystrophy. *J Cardiovasc Magn Reson*. 2011 Feb 2;13(1):12. [Epub ahead of print]
42. D Aronson, JG Verbalis, M Mueller, H Krum; **on behalf of the DILIPO investigators**. Short- and long-term treatment of dilutional hyponatraemia with satavaptan, a selective arginine vasopressin V2-receptor antagonist: the DILIPO study. *Eur J Heart Fail*. 2011 Jan 3.
43. Luis A. Pires, Stephano Ghio, **Eugene S. Chung**, Luigi Tavazzi, William T. Abraham, Bart Gerritse. Relationship between acute improvement in left ventricular function to six-month outcomes after cardiac resynchronization therapy. *Congestive Heart Fail*. 2011; 17: 64-69.
44. Kan N. Hor, Wojciech Mazur, Michael D. Taylor, HR Al-Khalidi, LH Cripe, John L. Jefferies, SV Raman, **Eugene S. Chung**, KJ Kinnett, K Williams, William M. Gottliebson, DW Benson. Effects of steroids and angiotensin converting enzyme inhibition on circumferential strain in boys with Duchenne muscular dystrophy: a cross-sectional and longitudinal study utilizing cardiovascular magnetic resonance. *J Cardiovasc Magn Reson*. 2011 Oct 19;13:60
45. Thomas M. O'Brien, Santosh G. Menon, Tracy Stephens, **Eugene S. Chung**. Algorithm based assessment of target weight removal in acute decompensated heart failure. *Congest Heart Fail*. 2012 Jan;18(1):43-6.
46. Sharokh Javaheri, J Smith, **Eugene S. Chung**. Sleep apnea associated with opioids is effectively treated with adaptive servoventilation. *J Clin Sleep Med*. 2008 Aug 15;4(4):305-10.
47. Bhatti S, Kan Hor, A Hakeem, Michael Taylor, **Eugene S. Chung**, AA Quyyumi, J Oshinski, AL Pecora, Dean J. Kereiakes, Wojciech Mazur. MRI strain analysis as a novel modality for the assessment of myocardial function following stem cell therapy-results from Amorcyte trial. **Journal of Cardiovascular Magnetic Resonance** 2011, 13(Suppl 1):P86
48. **Eugene S. Chung**, Lisa Dye, Andrea Feldmann, Donna Conley, Cheryl Bartone, Mark McDonald. Effect of automated, point of care electronic medical record screening for appropriate implantable device use in heart failure patients. *Am J Med Qual*. 2012 May 16.
49. Stefano Perlini, **Eugene S. Chung**, Gerard P. Aurigemma, Theo E. Meyer. Alterations in Early Filling Dynamics Predict the Progression of Compensated Pressure Overload Hypertrophy to Heart Failure Better than Abnormalities in Midwall Systolic Shortening. *Clin Exp Hypertens*. 2012 Nov 7.
50. Anne B. Curtis, Seth Worley, Philip B. Adamson, **Eugene S. Chung**, Imran Niazi, Lou Sherfese, Timothy Shinn, Martin St. John Sutton, Biventricular versus Right Ventricular Pacing in Patients with Left Ventricular Dysfunction and Atrioventricular Block (BLOCK HF Study). *N Engl J Med* 2013; 368:1585-1593.
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68. **Eugene S. Chung**, Cheryl Bartone, Santosh G. Menon, Wojciech Mazur, Thomas M. O'Brien, Dean J. Kereiakes. Target weight guided treatment of acute heart failure using ultrafiltration or usual care: results of a randomized pilot study. Accepted for oral presentation to European Society of Cardiology Congress 2010, August 28th- September 1st, Stockholm, Sweden.
69. **Eugene S. Chung**, Cheryl Bartone, Santosh G. Menon, Wojciech Mazur, O'Brien T, Kereiakes D. Target weight guided treatment of acute heart failure using ultrafiltration or usual care: results of a randomized pilot study. 14th Annual Scientific Sessions of The Heart Failure Society of America, San Diego, CA. September, 2010.
70. Sharokh Javaheri, J Smith, **Eugene S. Chung**. Sleep apnea associated with opioids is effectively treated with adaptive servoventilation. Annual Meeting of European Respir Society, 2010.
71. Renee M. Sullivan, Jaime Murillo, Bart Gerritse, **Eugene S. Chung**, Michael V Orlov, Berthold Stegemann, Michelle Fedewa, Brett Peterson, Brian Olshansky. Do Baseline Diastolic Echocardiographic Parameters Predict Outcome after Resynchronization Therapy? Results from the PROSPECT Trial. Scientific Sessions of the Heart Rhythm Society. San Francisco, CA. May, 2011.
72. Craig M. Stolen, LM Thackeray, **Eugene S. Chung**. Relationship between Lead Location and Left Ventricular Remodeling with Peri-Infarct Pacing. Scientific Sessions of the International Society for Heart and Lung Transplantation, Prague, Czech Republic. April 2012.
73. **Eugene S. Chung**, Mark Erickson, V Torres, Garrie Haas, A Magalski, Philip Adamson, Maria Rosa Costanzo, Jaime Murillo. Monitoring of Respiratory Rate Derived from an Implantable Right

Ventricular Pressure Sensor in Patients with Heart Failure. Scientific Sessions of the International Society for Heart and Lung Transplantation, Prague, Czech Republic. April 2012.

74. **Eugene S. Chung**, Mark Erickson, V Torres, Garrie Haas, A Magalski, Philip Adamson, Maria Rosa Costanzo, Jaime Murillo. Monitoring of Respiratory Rate Derived from an Implantable Right Ventricular Pressure Sensor in Patients with Heart Failure. Scientific Sessions of the Heart Rhythm Society, Boston, MA. May 2012.
75. Jagmeet P. Singh, J Shen, **Eugene S. Chung**, DO Martin, William T. Abraham, JA Coles, Jr. Clinical response with adaptive CRT algorithm compared with echo guided AV optimization: a propensity score analysis of multi-center trials. Accepted to the Scientific Sessions of the European Society of Cardiology, Munich, Germany. August 2012
76. Gregory F. Egnaczyk, Thomas M. O'Brien, Santosh G. Menon, Cheryl Bartone, **Eugene S. Chung**. Outcome of ultrafiltration stratified by admitting serum creatinine. 16th Scientific Sessions of the Heart Failure Society of America, Seattle, WA Sept. 2012
77. Gregory F. Egnaczyk, Thomas M. O'Brien, Santosh G. Menon, Cheryl Bartone, **Eugene S. Chung**. Ultrafiltration in Patients with Acute Decompensated Heart Failure and Pulmonary Hypertension. 16th Scientific Sessions of the Heart Failure Society of America, Seattle, WA Sept. 2012
78. Anne B. Curtis, Seth WorleyJ, Philip B. Adamson, **Eugene S. Chung**, Lou Sherfese, Martin St. John Sutton. Clinical Outcomes Are Improved With Biventricular Pacing Compared To Right Ventricular Pacing In Patients With Atrioventricular Block: An Analysis From The BLOCK HF Study. Late Breaking Trial. Scientific Sessions of the Heart Rhythm Society, Denver, CO, May 2013.
79. Julie Nieman, Anne Patten, **Eugene S. Chung**. A Standardized Method for Assessing Edema. Scientific Sessions of the Heart Failure Society of America. Orlando, FL. September 2013
80. Thomas M. O'Brien, Santosh G. Menon, Gregory F. Egnaczyk, Cheryl Bartone, D Kimbrell, Anne Patten, Julie Nieman, **Eugene S. Chung**. A Prospective Study of Serial Outpatient Aquapheresis. Scientific Sessions of the Heart Failure Society of America. Orlando, FL. September 2013
81. Michelle Grenier, John L. Jefferies, **Eugene S. Chung**, Kailas Menon, G Hull, Jennifer Westrich, Santosh G. Menon. Effects of Strength and Aerobic Training (Rowing) on Cardiovascular Structure in Elite High School Athletes. Scientific Sessions of the Heart Failure Society of America. Orlando, FL. September 2013
82. **Eugene S. Chung**, Anne B. Curtis, Seth Worley, Philip B. Adamson, Martin St. John Sutton, Lou Sherfese. Biventricular Pacing Leads to Favorable Ventricular Remodeling Compared with Right Ventricular Pacing in Patients with Atrioventricular Block and Systolic Dysfunction: Results from BLOCK HF. Late Breaking Clinical Trial Poster Presentation, Scientific Sessions of the Heart Failure Society of America. Orlando, FL. September 2013
83. **Eugene S. Chung**, Stephanie Gilardi, Shaoming Huang, Jennifer Wolfkiel, Dean J. Kereiakes, John Szawaluk. Establishing an advanced hypertension program in clinical practice – Journey to ASH designation. Scientific Sessions of the American Society of Hypertension, May 16-20, 2014 New York, NY.

84. **Eugene S. Chung**, Cheryl Bartone, Stephanie Gilardi S, Dean J. Kereiakes, John Szawaluk. The interplay of baseline weight change, blood pressure change and gender in clinical practice. Scientific Sessions of the American Society of Hypertension, May 16-20, 2014 New York, NY.
85. Stephanie Gilardi, Cheryl Bartone, **Eugene S. Chung**, Shaoming Huang, John Szawaluk. Outcomes of individuals participating in a resistant hypertension clinic. Scientific Sessions of the American Society of Hypertension, May 16-20, 2014 New York, NY.
86. Marc S. Penn, **Eugene S. Chung**, Amit Patel, RD Anderson, Ferrell Mendelsohn, Scott J. Fisher, Joseph Pastore, Raul Aras, Warren Sherman, Leslie Miller. Mitigation of Adverse Remodeling of Ischemic Heart Failure Patients Receiving SDF-1 in a Randomized Phase II Trial. Late Breaking Trial Session - Scientific Sessions of the European Society of Cardiology – Heart Failure. May 2014, Athens, Greece.
87. **Eugene S. Chung**, Warren Sherman, RD Anderson, Mendelsohn F, Leslie Miller, Scott J. Fisher, Joseph Pastore, Raul Aras, Amit Patel, Marc S. Penn. A phase II randomized, double-blind, placebo controlled study to evaluate the safety and efficacy of an endomyocardial injection of hSDF-1 plasmid to ischemic heart failure patients, the STOP-HF trial. Scientific Sessions of the European Society of Cardiology. August 2014.
88. **Eugene S. Chung**, Marc S. Penn, Warren Sherman, RD Anderson, Ferrell Mendelsohn, Scott J. Fisher, Joseph PastoreM, Raul Aras, Leslie Miller, Amit Patel. SDF-1 Plasmid Attenuates Adverse Remodeling in Ischemic Heart Failure Patients in a Randomized Phase II Trial. Scientific Sessions of the Heart Failure Society of America. Las Vegas. September 2014
89. Leslie Miller, Warren Sherman, Amit Patel, RD Anderson, Ferrell Mendelsohn, Scott J. Fisher, Joseph PastoreM, Raul Aras, **Eugene S. Chung**, Marc S. Penn. Dose-Dependent Reversal of Adverse Remodeling in High-Risk Ischemic Cardiomyopathy Patients Receiving Stromal Cell-derived Factor 1 Plasmid DNA in a Randomized Blinded Phase II Trial (STOP-HF). Scientific Sessions of the American Heart Association. Chicago. November 2014
90. Trent Fischer, Fred Kueffer, **Eugene Chung**, Branislav Stancak , Jesper Hastrup Svendsen, Gregg W. Stone, Angel Leon. Baseline Parameters from the Pacing Remodeling Prevention Therapy Trial (PRomPT). Scientific Sessions of the American Heart Association. Chicago. November 2014
91. Clinical and Economic Value of Maximizing Response to Cardiac Resynchronization Therapy (CRT): Evidence from 5 Randomized Controlled Trials. **Eugene S. Chung**, Jagmeet Singh, D Martin, William T. Abraham, Stelios I. Tsintzos, T Rogers, S Eggington, Sarah Bril, T Goss , D Ptak, B Brueggenjuergen, M Cowie. Scientific Sessions of the American Heart Association. Chicago. November 2014
92. Philip B. Adamson, **Eugene S. Chung**, Martin St. John Sutton, M Sidhu, S Mealing, A Padhiar, Stelios Tsintzos, Sarah L. Bril, Amy Lautenbach, Anne B. Curtis. Cost effectiveness of biventricular pacemakers vs. RV pacemakers and biventricular defibrillators with dual chamber defibrillators in patients with atrioventricular block and systolic dysfunction: All patient and subgroup analyses from the BLOCK-HF clinical trial. Scientific Sessions of the American Heart Association. Chicago. November 2014

93. Eugene S. Chung, Michael Gold, Anne B. Curtis, Philip B. Adamson, Stelios Tsintzos, S Eggington. Economic Benefits of Increasing Battery Longevity of Cardiac Resynchronization Therapy Defibrillator Devices. Scientific Sessions of the Heart Rhythm Society, Boston, MA. May 2015
94. MS Penn, **Eugene S. Chung**, A Patel, RD Anderson, FO Mendelsohn, S. Anwaruddin, SJ Fisher, JM Pastore, RD Aras, L. Miller. Long-term improved ventricular remodeling following a single transient administration of SDF-1 gene therapy in high risk chronic heart failure patients: The STOP-HF Randomized Phase II Trial. Late Breaking Trial. Heart Failure 2015 / 2nd World Congress on Acute Heart Failure, May 2015 - Seville – Spain
95. Amy Dadosky, Heather Overbeck, Gregory Egnaczyk, Santosh Menon, Thomas Obrien, **Eugene Chung**. The Effect of Enhanced Patient Education on 30-day Heart Failure Readmission Rates. Heart & Lung: The Journal of Acute and Critical Care. 2016;45(4):372.
96. Heather Overbeck, Amy Dadosky, Kathryn Weber, Lydia Evans, **Eugene Chung**, Santosh Menon. The 30-day Pill Project to Reduce Heart Failure Readmissions. Heart & Lung: The Journal of Acute and Critical Care. 2016;45(4):372.
97. Amy Dadosky, Heather Overbeck, Gregory F. Egnaczyk, Santosh Menon, Thomas M. O'Brien, **Eugene Chung**. The effect of enhanced patient education and post discharge follow up on 30 day readmission rates after a heart failure admission. ESC 2016 (oral presentation 5/24/16; abstract #P1882).
98. Eugene Chung, Collin Dadosky, JL Jefferies, Gregory F. Egnaczyk, Thomas M. O'Brien, Santosh Menon. Optimisation of decongestion in acute decompensated heart failure: role of tolvaptan and aquapheresis. ESC 2016 (oral presentation 5/23/16; abstract #P833).
99. Samreena Saleem, Santosh G. Menon, Gregory F. Egnaczyk, Thomas M. O'Brien, Valerie Gadowski, Cathy Stugmeyer, **Eugene S. Chung**. Home INR Monitoring Versus Lab Monitoring in Patients With Left Ventricular Assist Device. Journal of Cardiac Failure 2016; 22: S80.
100. Vien Truong, Komal Safdar, Adam Magier, Brian Volz, Cheryl Bartone, Wojciech Mazur, Dean Kereiakes, **Eugene Chung**. Changes in Mechanical Dyssynchrony in Severe Aortic Stenosis Patients Undergoing Transcatheter Aortic Valve Replacement. Journal of Cardiac Failure 2016; 22 Issue 8: S49.
101. Komal Safdar, Adam Magier, Vien Truong, Cheryl Bartone, Gregory Egnaczyk, Wojciech Mazur, Dean Kereiakes, Jennifer Schaaf, Gary Schneider, **Eugene Chung**. Effect of Transcatheter Aortic Valve Replacement on Left Ventricular Geometry. Journal of Cardiac Failure 2016; 22: S49
102. **Eugene Chung**, Stelios I Tsintzos, Stuart Mealing, Arnie Padhiar, Anne B Curtis. Development of cardiac resynchronization therapy (CRT) indications in atrioventricular (AV) block: evidence and economics from BLOCK-HF. Presented at HRS 2017 Chicago May 2017.
103. John Broderick, Adam Magier, Dean J. Kereiakes, Ian J. Sarembock, Joseph Choo, Cheryl Bartone, **Eugene S. Chung**. Changes in left ventricular ejection fraction after transcatheter aortic valve replacement. Accepted for presentation #9313 at TCT 2017 Denver October 2017.
104. Vinod Sharma, Barry Borlaug, Athula Abeyratne, Yong Cho, **Eugene Chung**. Rate responsive pacing is associated with lower mortality in dual-chamber pacemaker patients. AHA

2017 Anaheim November 2017.

105. Khanh P. N. Pham, Hoang H. N. Duong, Van N. Truong, Tam M. N. Ngo, Ha T. Ngo, Quynh T. Dinh, Sang T. Tran, Tram B. Nguyen, Huy D. Dinh, Thien M. Thai, Dat V. Nguyen, Nhut L. Nguyen, Wojciech Mazur, **Eugene Chung**, Thach Nguyen, Vinh N. Pham, Vien T. Truong. Can we predict the angiographic severity of coronary artery disease in patient with acute coronary syndrome using NT-PROBNP? ACC 2018, Orlando March 2018.

Pending Abstracts

1. Sharma V, Borlaug B, Abeyratne A, Landman S, Chung ES. Rate responsive pacing is associated with lower mortality in dual-chamber pacemaker patients: Evidence from real-world EHR data. Submitted to HRS 2019.
2. Egnaczyk G, Rohm H, Gilardi S, O'Brien T, Raymond T, Weber K, Smith T, Chung ES, Castillo-Sang M. Argatroban bridging in the immediate post-operative period in recipients of durable left ventricular assist devices. Submitted to ISHLT 2019.
3. Economic implications of longer battery longevity of cardiac resynchronization therapy defibrillator devices in the United States. Submitted to HRS 2019.
4. Vernoooy K, Hoppe B, Pierce D, Singh J, Liu S, Hermans K, O'Donnell D, Cha Y-M, Lunati M, Chung ES. CRT response in real world patients: Evaluation methods and actions taken to optimize response. Submitted to HRS 2019.
5. A real-world cohort analysis of novel algorithm to increase effective cardiac resynchronization therapy in patients with atrial fibrillation. Submitted to HRS 2019.
6. Metzl MD, Canby RC, Fruechte EM, Duggal M, Exner DV, Chung ES, Singh JP, O'Donnell D, Cha Y-M, Lunati M, Murphy J, Zhong Y. Effect of right ventricular pacing on mortality in a real-world population. Submitted to HRS 2019.

Invited Reviews and Articles

1. Wojciech Mazur, **Eugene S. Chung**, David Collins, Joseph Choo. Revolution in cardiac imaging: Real Time 3D Transesophageal Echocardiography. *Cardiology*, ACC member publication, Vol 37, No 9, September 2008. page 18-19.
2. **Eugene S. Chung**, Wojciech Mazur. The day after PROSPECT: Echocardiography in assessment of dyssynchrony in the "Real World". *Cardiology*, ACC member publication, in April 2009
3. **Eugene S. Chung**, Wojciech Mazur. Editorial: Echocardiographic assessment of dyssynchrony: moving forward. *Circ Heart Fail*. 2010 Sep 1;3(5):561-4.
4. Gregory F. Egnaczyk, **Eugene S. Chung**. The Relationship between Cardiac Resynchronization Therapy and Diastolic Function. *Curr Heart Fail Rep*. 2014 Mar;11(1):64-9.
5. Thomas M. O'Brien, Edward J. Schloss, **Eugene S. Chung**. Indications for Cardiac Resynchronization Therapy. *Cardiol Clin*. 2014 May;32(2):293-8.

Book Chapters

Evaluation and management of patients with heart failure in clinical practice
Theo E Meyer, **Eugene S Chung** and William H Gaasch
Cardiovascular Medicine: Practice and Management 1/ed.
Edited by Richard C. Becker
Oxford University Press, Hardcover, 10-2001

Physician Education Symposia Organizer/Director

Heart 2001 (October 2001) *Course Co-Director*: 1) Update on Heart Failure, 2) Everything you ever wanted to know about beta blockers in heart failure. (Host: The Lindner Center for Research and Education)

Heart 2002 (October 2002) *Course Co-Director*: Update in Cardiology. The Lindner Center for Research and Education, Cincinnati, OH. (Host: The Lindner Center for Research and Education)

Devices in Heart Failure: Changing Paradigm (December 2002) *Course Co-Director*. Paul Brown Stadium, Cincinnati, OH (Sponsors: Medtronic and Guidant)

Heart Failure 2003: *Drug Therapies and Beyond*. Course Co-Director, Kingsgate Marriott, Cincinnati, OH. May 31, 2003. (Host: The Lindner Center for Research and Education)

Cardiology Update: Incorporating the Latest Advances into Clinical Practice: *Course Co-Director*. Heart Failure Update. (November 1, 2003) Marriot Union Center, Oxford, OH

Heart 2005: Strong Medicine through Innovative Business Planning. (Nov. 2005) *Course Co-director*. Topic: Improving Quality of Care by Streamlining Communication: Using Technology Wisely. (Host: The Lindner Center for Research and Education)

Heart Failure Management: an Integrated Team Approach (August 2006). *Program Director*. Marriott Hotel, Louisville, KY. (Sponsor: Guidant)

New Advances in Clinical and Device Management in Patients with Heart Failure (June 2007). *Program Director*. W Hotel, Chicago, IL. (Sponsor: Guidant)

Managing SCA Risk in the Post-MI and LV Dysfunction Populations. (February 2009). *Program Director*, Scottsdale, AZ (Sponsor: Medtronic)

Faculty Presentations

Cardiology Update for Primary Care. *Evaluation of Endocarditis*. Organized by Leahy Clinic. Pittsfield, MA. June 1999

Workshop on Educating the Patient with Heart Failure. Organized by University of Cincinnati. *New Dimensions in Heart Failure: Translating Innovation into Intervention*. Cincinnati, OH. June 2001

From Bench to Practice: Implementing Advances in Cardiovascular Care. Organized by University of Kentucky. *Workshop on the patient with advanced heart failure*. Lexington, KY. October 2001

Annual Meeting of the Echocardiography Society of Southern Ohio, Northern Kentucky, and Southeastern Indiana. *Dyssynchrony echo study*. Covington, KY. September 2006

Heart Failure Summit 2008. Organized by The Cleveland Clinic. *Role of Mechanical Dyssynchrony in Heart Failure*. Miami FL. February 2008

Heart Failure Society of America, 11th Scientific Sessions, Faculty lecture. *Technology and Fluid Status Measures*, Washington DC. September 2007

Heart Failure Society of America, 11th Scientific Sessions. *Results of PROSPECT, Late Breaking Clinical Trials*. Washington DC. September 2007

American Heart Association, Scientific Sessions. *Moderator of Session: Predictors of Clinical Response to CRT*. Orlando FL. November 2007

5th International Stem Cell Therapy Symposium *Left Ventricular Pacing Post Myocardial Infarction*. Madrid, Spain. April 2008

Scientific Sessions of the Heart Rhythm Society. *Echocardiographic assessment of dyssynchrony should be used to select patients for CRT*: Faculty debate participant. Boston, MA. May 2009

American Heart Association, Scientific Sessions. *Assessing functional status using history and physical*. Faculty how to presentation. Orlando, FL. Nov 2009

American College of Cardiology, Scientific Sessions. *Moderator of Session: Optimizing Cardiac Resynchronization Therapy*. New Orleans, LA. April 2011

Update on Women's Health. Topic: *Early cardiovascular screening in women*. University of Cincinnati, Cincinnati, OH. March 2nd, 2012

Scientific Sessions of the Heart Failure Society of America. Seattle, WA. September 2012.
Faculty Case presenter: Common Sense and Personalized Medicine.
Faculty presenter: Tracking changes at home

Scientific Sessions of the Heart Failure Society of America. Orlando, FL. September 2013. *Faculty presenter: How-to build an advanced heart failure program*

Korean Society of Cardiology Scientific Sessions, Ilsan, South Korea, November 2013
Faculty presenter: device therapy in heart failure

Scientific Sessions of the Heart Failure Society of America. Orlando, FL. September 2013. *Faculty presenter: How-to run an effective clinical research program.*

Invited Lectures

Heart 2000: 1) *Heart Failure Guideline Summary*, 2) *New and Investigative Approaches to Heart Failure*. Organized by The Lindner Center for Research and Education. Cincinnati, OH. October 2000

Internal Medicine Grand Rounds at The Christ Hospital: *Heart failure disease management in clinical practice*. Cincinnati, OH. September 2000

Physician Education Symposium. Organized by Guidant. *Summary of Cardiac Resynchronization Trials*. Half Moon Bay, CA. June 2003

Devices in Heart Failure: Changing Paradigm. Organized by The Lindner Center. Medical Therapy for Heart Failure. Great American Ball Park, Cincinnati, OH (September 2003)

New sales force training, Scios. *Pathophysiology of heart failure and innovative therapies*. Fremont, CA. June, 2004

BREATHE symposium. *Sleep apnea and heart failure*. The Manor House, Mason, OH. September 2004

Phoenix Physician Education Symposium. Organized by Guidant. *Contemporary Heart Failure Management*. Phoenix, AZ. April 2005)

Grand Rounds at Tarzana Regional Hospital. *Importance of Sudden Cardiac Arrest and Patient Education of EF*. Los Angeles, CA. November 2005

Cardiology Grand Rounds at University of Massachusetts Medical Center. *Fine tuning device therapy in heart failure*. Worcester, MA. December 2005.

Internal Medicine Grand Rounds at The Christ Hospital. *Coordination of heart failure care across the inpatient-outpatient continuum*. Cincinnati, OH. January 2006.

Sudden Cardiac Death and Heart Failure 2006: Current Issues and Future Trends
Organized by Guidant. Optimal Medical Management of Heart Failure. April 1, 2006

BREATHE symposium, Faculty Panel Member. Northern Kentucky Conference Center, Covington, KY. September 2006.

Cardiology Grand Rounds at Jewish Hospital. Acute Decompensated Heart Failure: Role of Ultrafiltration. Louisville, KY. October 2007

Heart Failure Journal Club presentation at The Mayo Clinic, *Results of PROSPECT study* Rochester MN. February 2008

BREATHE symposium, Faculty Member. Topic: Device Therapy in Heart Failure, The Manor House, Mason, OH. September, 2008

Cardiology Grand Rounds at Boston University Medical Center. *Role of echocardiography in determining dyssynchrony as basis for CRT*. October 29th, 2008.

21st Century Management of the Complex HF Patient: Topic: *Optimal medical management in HF*. New Orleans, October 25-26, 2008

Cardiology Grand Rounds at University of Cincinnati Medical Center. *Role of echocardiography in determining dyssynchrony as basis for CRT*. Cincinnati, December 2nd, 2008

SCA Prevention-putting guidelines into practice: case study. San Francisco, February 2009

Solutions for identifying cardiac resynchronization patients. Webinar. February 2009

BREATHE symposium, Faculty Member.

Topic: passive heart restraint device.

Debater: should all patients with EF < 35% receive an ICD?

April 2009

BREATHE symposium, Faculty Member.

Debater: should all patients with EF < 35% receive an ICD?

October 2009

Cardiac Rhythm and Vascular Summit, Washington DC, May 21-22, 2011

Optimizing HF Medications

Investigator meeting, PROMPT. Topic: review of background human data, implantation tips, review of MENDMI data. Amsterdam, NL, May 17th, 2011

Internal Medicine grand rounds, The Christ Hospital. Update on resistant hypertension. January 5th, 2012

Internal Medicine grand rounds, The Christ Hospital. Update Heart Failure Clinical Research, March 14th, 2013

Cardiology Grand Rounds, Results of the BLOCK HF Trial. Yonsei University Department of Medicine. Seoul, Korea. Nov. 26, 2013

JAPAN MEETING OCTOBER 2016

Public Education

Public Forums, series of teaching sessions for patients (and families) with heart failure, organized through the Lindner Center for Research and Education.

Heart Failure Awareness Week 2003 (organizer): series of three public forums organized at three of the local hospitals, with attendance of 300.

Heart Failure Awareness Week 2004 (organizer): four public forums with overall attendance of 500

Heart Failure Awareness Week 2005 (organizer): four public forums with overall attendance of 600.

Basics of Heart Failure (2007): public forum at Christ Hospital with attendance of 100

Medications in heart failure (2009): public forum at Christ Hospital with attendance of 150

Cardiology Update 2009 (organizer): Clinton Memorial Hospital, Wilmington OH with attendance of 30

Cardiology Update 2009 (organizer): Margaret Mary Hospital, Batesville IN with attendance of 60

Cardiology Update 2011 (moderator): The Christ Hospital with attendance of 250

Heart Failure Update 2014: public forum at Margaret Mary Hospital with attendance of 50