



Corazon

The Heart & Vascular Experts

Solutions for Outstanding Cardiovascular Programs

Jennifer Cummings, MD
Medical Advisor,
Electrophysiology

CAREER SUMMARY



Dr. Cummings is a Medical Director of Cardiac Electrophysiology at Akron General Medical Center, Akron Ohio. She is an active member of several professional societies and committees, including the American College of Cardiology, where she serves on the Annual Meeting Planning Committee and Board of Trustees for the Ohio Chapter; the American College of Physicians; the American Medical Association; and the American Society of Internal Medicine. She has been lead or co-author for a dozen book chapters and journal articles, while also serving as an ad hoc peer reviewer for *Journal of Cardiac Electrophysiology* and *Annals of Internal Medicine*. An avid researcher, she has presented over 25 abstracts at various professional society meetings all over the United States, ranging in topics from cardiac resynchronization therapy and devices, defibrillation, electro-anatomical mapping, and ablation.

MEDICAL EXPERIENCE

Akron General Medical Center, Akron, OH
Cardiac Electrophysiology
Medical Director

The Cleveland Clinic Foundation, Cleveland, OH
Section of Electrophysiology and Pacing
Associate Staff

The Cleveland Metro Life Flight Operations
Flight Physician

CARDIOVASCULAR/CLINICAL CONSULTING

Corazon, Inc. Pittsburgh, PA
Medical Advisor, Electrophysiology

2006 – Present

Provides consultation to hospitals and health systems across the country for the implementation of electrophysiology programs, and visits these programs to present to Boards, hospital leadership, and/or internal and external stakeholders to educate them on the benefits of this sub-specialty of comprehensive cardiovascular care. Provides expertise and opinions on the clinical merits of EP procedures and commentary about current industry trends, medical advances, and new technology in EP.



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EDUCATION

Medical Degree
Northeastern Ohio University College of Medicine
Rootstown, OH

Postgraduate Training

The Cleveland Clinic
Cleveland, OH
Chief Fellow

Case Western Reserve University: MetroHealth Campus
Cleveland, OH
Chief Fellow

SUMMA Health System
Akron, OH

Bachelors of Science, Integrated Life Science
Kent State University
** Cum Laude*

LICENSURE

Ohio Medical License	
American Board of Internal Medicine	2000 – 2010
Cardiovascular Medicine	2003 – 2013
Clinical Cardiac Electrophysiology	2006 – 2016
ATLS Certified	2002 – 2006
ACLS Certified	2004 – 2006
BCLS Certified	2004 – 2006

PROFESSIONAL MEMBERSHIPS

American College of Cardiology	
<i>Writing Committee of a Health Policy Statement</i>	
<i>on Structured Reporting in Cardiovascular Imaging</i>	2008 – Present
<i>National Committee on Clinical Electrophysiology</i>	2007 – Present
<i>Women in Cardiology Committee</i>	2006 – Present
<i>Treasurer</i>	2006
<i>Fellow</i>	2000 – Present



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Atrial Fibrillation Innovation Center <i>Executive Committee</i>	2006 – Present
Cleveland Clinic Annual Atrial Fibrillation Summit <i>Program Planning Committee</i>	2005 – Present
Heart Rhythm Society	2004 – Present
American College of Physicians/American Society of Internal Medicine <i>Associate Member</i>	1997 – Present
American Medical Association	1997 – Present
ACP-ASIM Ohio Chapter <i>Associate Member Committee</i>	1998 – 2000
<i>Annual Meeting Planning Committee</i>	2004

PUBLICATIONS

Lewis WR and Cummings JE. Palliative Medicine: Arrhythmias. In Walsh et al ed. *Palliative Medicine*. Elsevier. 2008. Chapter 80 (In press)

Cummings JE. Complications: Atrial-Esophageal Fistula / Esophageal Injury. In Calkins H et al, ed. *A Practical Approach to Catheter Ablation of Atrial Fibrillation*. Lippincott Williams and Wilkins, 2008. Chapter 22 p325-329.

Cummings JE, Barrett CD, Litwak KN, Di Biase L, Chowdhury P, Oh S, Ching CK, Saliba WI, Schweikert RA, Burkhardt JD, De Marco S, Armaganijan L, Natale A. Esophageal Luminal Temperature Measurement Underestimates Esophageal Tissue Temperature During Radiofrequency Ablation Within the Canine Left Atrium: Comparison Between 8 mm Tip and Open Irrigation Catheters. J Cardiovasc Electrophysiol. 2008 Mar 26. [Epub ahead of print]

Corrado A, Patel D, Riedlbauchova L, Fahmy TS, Themistoclakis S, Bonso A, Rossillo A, Hao S, Schweikert RA, Cummings JE, Bhargava M, Burkhardt D, Saliba W, Raviele A, Natale A. Efficacy, Safety, and Outcome of Atrial Fibrillation Ablation in Septuagenarians. J Cardiovasc Electrophysiol. 2008 Mar 20. [Epub ahead of print]

Khan MN, Usmani A, Noor S, Elayi S, Ching CK, Di Biase L, Patel D, Burkhardt JD, Cummings J, Schweikert R, Saliba W, Natale A. Low incidence of left atrial or left atrial appendage thrombus in patients with paroxysmal atrial fibrillation and normal EF who present for pulmonary vein antrum isolation procedure. J Cardiovasc Electrophysiol. 2008 Apr;19(4):356-8. Epub 2008 Feb 12.

Cummings JE, Schweikert RA. Supraventricular tachycardias. In Griffin BP, ed. *The Cleveland Clinic Cardiology Board Review*. Lippincott Williams & Wilkins, 2007. Chapter 48 p. 624-638.



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Khasnis A, Cummings JE, Tchou P. Genetically determined ventricular arrhythmias. In Natale A, ed. *Handbook of Cardiac Electrophysiology*. Informa Healthcare, 2007. Chapter 10 p. 113-132.

Khasnis A, Tchou P, Cummings JE. Idiopathic Ventricular Tachycardia. In Natale A, ed. *Handbook of Cardiac Electrophysiology*. Informa Healthcare, 2007. Chapter 11 p. 133-144.

Khan M, Cummings JE, Wilkoff B. Implantation of pacemakers and ICDs. In Natale A, ed. *Handbook of Cardiac Electrophysiology*. Informa Healthcare, 2007. Chapter 15. p 193-198.

Thal S, Lakkireddy D, Cummings JE, Wilkoff B. Extraction of devices. In Natale A, ed. *Handbook of Cardiac Electrophysiology*. Informa Healthcare, 2007. Chapter 17. p 209-218.

Kanj MH, Wazni O, Fahmy T, Thal S, Patel D, Elay C, Di Biase L, Arruda M, Saliba W, Schweikert RA, Cummings JE, Burkhardt JD, Martin DO, Pelargonio G, Dello Russo A, Casella M, Santarelli P, Potenza D, Fanelli R, Massaro R, Forleo G, Natale A. Pulmonary vein antral isolation using an open irrigation ablation catheter for the treatment of atrial fibrillation: a randomized pilot study. *J Am Coll Cardiol*. 2007; 49(15):1634-41.

Verma A, Saliba WI, Lakkireddy D, Burkhardt JD, Cummings JE, Wazni OM, Belden WA, Thal S, Schweikert RA, Martin DO, Tchou PJ, Natale A. Vagal responses induced by endocardial left atrial autonomic ganglion stimulation before and after pulmonary vein antrum isolation for atrial fibrillation. *Heart Rhythm* 4(9). 2007; 1177-82.

Verma A, Minor S, Kilicaslan F, Patel D, Hao S, Beheiry S, Lakkireddy D, Elayi SC, Cummings J, Martin DO, Burkhardt JD, Schweikert RA, Saliba W, Tchou PJ, Natale A. Incidence of atrial arrhythmias detected by permanent pacemakers (PPM) post-pulmonary vein antrum isolation (PVAI) for atrial fibrillation (AF): correlation with symptomatic recurrence. *J Cardiovasc Electrophysiol*. 2007;18(6):601-6.

Verma A, Patel D, Fahmy T, Martin DO, Burkhardt JD, Elayi SC, Lakkireddy D, Wazni O, Cummings J, Schweikert RA, Saliba W, Tchou PJ, Natale A. Efficacy of adjuvant anterior left atrial ablation during intracardiac echocardiography-guided pulmonary vein antrum isolation for atrial fibrillation. *J Cardiovasc Electrophysiol*. 2007; 18(2):151-6.

Phillips KP, Schweikert RA, Saliba WI, Themistoclakis S, Raviele A, Bonso A, Rossillo A, Burkhardt JD, Cummings J, Natale A. Anatomic Location of Pulmonary Vein Electrical Disconnection with Balloon-Based Catheter Ablation. *J Cardiovasc Electrophysiol* 2007.

Di Biase L, Fahmy TS, Patel D, Bai R, Civello K, Wazni OM, Kanj M, Elayi CS, Ching CK, Khan M, Popova L, Schweikert RA, Cummings JE, Burkhardt JD, Martin DO, Bhargava M, Dresing T, Saliba W, Arruda M, Natale A. Remote magnetic navigation: human experience in pulmonary vein ablation. *J Am Coll Cardiol* 50(9): 868-74.

Arruda M, Mlcochova H, Prasad SK, Kilicaslan F, Saliba W, Patel D, Fahmy T, Morales LS, Schweikert R, Martin D, Burkhardt D, Cummings J, Bhargava M, Dresing T, Wazni O, Kanj M, Natale A. Electrical Isolation of the Superior Vena Cava: An Adjunctive Strategy to Pulmonary Vein Antrum Isolation Improving the Outcome of AF Ablation. *J Cardiovasc Electrophysiol* 2007.



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Chuang HH, Lakkireddy D, Cummings J, Tuzcu EM. Transcatheter occlusion of left atrial appendage for stroke prevention in atrial fibrillation - potential role for intracardiac echocardiography. In: Natale A, ed. *Intracardiac echocardiography in interventional electrophysiology*. Abingdon [U.K.]: Informa Healthcare, 2006. Chapter 7. p. 91-98.

Saliba W, Cummings JE, Tomassoni G, Natale A. Intracardiac echocardiography: transeptal catheterization. In: Natale A, ed. *Intracardiac echocardiography in interventional electrophysiology*. Abingdon [U.K.]: Informa Healthcare, 2006. Chapter 8. p. 99-103.

Di Biase L, Fahmy TS, Wazni OM, Bai R, Patel D, Lakkireddy D, Cummings JE, Schweikert RA, Burkhardt JD, Elayi CS, Kanj M, Popova L, Prasad S, Martin DO, Prieto L, Saliba W, Tchou P, Arruda M, Natale A. Pulmonary vein total occlusion following catheter ablation for atrial fibrillation: clinical implications after long-term follow-up. *J Am Coll Cardiol* 2006; 48(12): 2493-9.

Bai R, Patel D, Di Biase L, Fahmy TS, Kozeluhova M, Prasad S, Schweikert R, Cummings JE, Saliba W, Andrews-Williams M, Themistoclakis S, Bonso A, Rossillo A, Raviele A, Schmitt C, Karch M, Uriarte JA, Tchou P, Arruda M, Natale A. Phrenic nerve injury after catheter ablation: should we worry about this complication? *J Cardiovasc Electrophysiol* 2006;17:944-8.

Burkhardt JD, Saliba WI, Schweikert RA, Cummings JE, Natale A. Remote magnetic navigation to map and ablate left coronary cusp ventricular tachycardia. *J Cardiovasc Electrophysiol* 2006;17:1142-4.

Cummings JE, Schweikert RA, Saliba WI, et al. Brief communication: atrial-esophageal fistulas after radiofrequency ablation. *Ann Intern Med* 2006;144:572-4.

Khan M, Kalahasti V, Rajagopal V, Khaykin Y, Wazni O, Almahameed S, Zuzek R, Shah T, Lakkireddy D, Saliba W, Schweikert R, Cummings JE, Martin DO, Natale A. Incidence of atrial fibrillation in heart transplant patients: long-term follow-up. *J Cardiovasc Electrophysiol* 2006;17:827-31.

Kilicaslan F, Verma A, Saad E, Themistoclakis S, Bonso A, Raviele A, Bozbas H, Andrews MW, Beheiry S, Hao S, Cummings JE, Marrouche NF, Lakkireddy D, Wazni O, Yamaji H, Saenz LC, Saliba W, Schweikert RA, Natale A. Efficacy of catheter ablation of atrial fibrillation in patients with hypertrophic obstructive cardiomyopathy. *Heart Rhythm* 2006;3:275-80.

Mlcochova H, Saliba WI, Burkhardt DJ, Rodriguez RE, Cummings JE, Lakkireddy D, Patel D, Natale A. Catheter ablation of ventricular fibrillation storm in patients with infiltrative amyloidosis of the heart. *J Cardiovasc Electrophysiol* 2006;17:426-30.

Saliba W, Cummings JE, Oh S, et al. Novel robotic catheter remote control system: feasibility and safety of transeptal puncture and endocardial catheter navigation. *J Cardiovasc Electrophysiol* 2006;17:1102-5.

Verma A, Kilicaslan F, Martin DO, Minor S, Starling R, Marrouche NF, Almahammed S, Wazni OM, Duggal S, Zuzek R, Yamaji H, Cummings JE, Chung MK, Tchou PJ, Natale A. Preimplantation B-type natriuretic peptide concentration is an independent predictor of future appropriate implantable defibrillator therapies. *Heart* 2006;92:190-5.



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Cummings JE, Schweikert RA, Saliba WI, Burkhardt JD, Kilicaslan F, Saad E, Natale A. Recognition of Atrio-esophageal Fistulas Following Radiofrequency Ablation: Can We Do Better? *Annals of Internal Medicine*. 2006 April;144(8):572-74.

Kilicaslan F, Verma A, Saad E, Rossillo A, Davis DA, Prasad SK, Wazni O, Marrouche NF, Raber LN, Cummings JE, Beheiry S, Hao S, Burkhardt JD, Saliba W, Schweikert RA, Martin DO, Natale A. Transcranial Doppler detection of microembolic signals during pulmonary vein antrum isolation: implications for titration of radiofrequency energy. *J Cardiovasc Electrophysiol*. 2006 May;17(5):495-501.

Cummings J, Belden W, Wilkoff BL. Left ventricular epicardial lead implantation : anatomy, techniques, and tools. In: Wang PJ, ed. *New arrhythmia technologies*. Malden, Mass.: Blackwell Futura, 2005. Chapter 15. p. 134-144.

Verma A, Kilicaslan F, Pisano E, Marrouche NF, Fanelli R, Brachmann J, Geunther J, Potenza D, Martin DO, Cummings JE, Burkhardt JD, Saliba W, Schweikert RA, Natale A. Response of atrial fibrillation to pulmonary vein antrum isolation is directly related to resumption and delay of pulmonary vein conduction. *Circulation*. 2005 Aug 2;112(5):627-35.

Cummings JE, Schweikert RA, Saliba WI, Burkhardt JD, Brachmann J, Gunther J, Schibgilla V, Verma A, Dery M, Drago JL, Kilicaslan F, Natale A. Assessment of temperature, proximity, and course of the esophagus during radiofrequency ablation within the left atrium. *Circulation*. 2005 Jul 26;112(4):459-64.

Verma A, Kilicaslan F, Schweikert RA, Tomassoni G, Rossillo A, Marrouche NF, Ozduran V, Wazni OM, Elayi SC, Saenz LC, Minor S, Cummings JE, Burkhardt JD, Hao S, Beheiry S, Tchou PJ, Natale A. Short- and long-term success of substrate-based mapping and ablation of ventricular tachycardia in arrhythmogenic right ventricular dysplasia. *Circulation*. 2005 Jun 21;111(24):3209-16.

Cummings JE, Pacifico A, Drago JL, Kilicaslan F, Natale A. Alternative energy sources for the ablation of arrhythmias. *Pacing Clin Electrophysiol*. 2005 May;28(5):434-43.

Verma A, Kilicaslan F, Martin DO, Minor S, Starling R, Marrouche NF, Almahammed S, Wazni OM, Duggal S, Zuzek R, Yamaji H, Cummings JE, Chung MK, Tchou PJ, Natale A. Pre-implantation B-type natriuretic peptide level is an independent predictor of future appropriate implantable defibrillator therapies. *Heart*. 2005 May 27

Cummings JE, Schweikert R, Saliba W, Hao S, Martin DO, Marrouche NF, Burkhardt JD, Kilicaslan F, Verma A, Beheiry S, Belden W, and Natale A. Left Atrial Flutter Following Pulmonary Vein Antrum Isolation with Radiofrequency Energy: Linear Lesions or Repeat Isolation. *J Cardiovasc Electrophysiol*, 2005 Mar 3;16:1-5.

Verma A, Marrouche NF, Schweikert RA, Saliba W, Wazni O, Cummings JE, Abdul-Karim A, Bhargava M, Burkhardt JD, Kilicaslan F, Martin DO, Natale A. Relationship between successful ablation sites and the scar border zone defined by substrate mapping for ventricular tachycardia post-myocardial infarction. *J Cardiovasc Electrophysiol*. 2005 May;16(5):465-71.



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Rohr S, Cummings JE, Rich M, Silver K. The Role of Systemic Mastocytosis: An Unusual Cause of Cardiac Arrest and Treatment with Leukotriene Receptor (Cyst LT1) Antagonist. *Allergy and Asthma Proceedings* (in press)

Verma A, Marrouche NF, Seshadri N, Schweikert RA, Bhargava M, Burkhardt JD, Kilicaslan F, Cummings JE, Saliba W, Natale A. Importance of Ablating all Potential Right Atrial Flutter Circuits in Postcardiac Surgery Patients. *J Am Coll Cardiol* 2004 Jul 21;44(2):409-14.

Marrouche NF, Verma A, Wazni O, Schweikert R, Martin DO, Saliba W, Kilicaslan F, Cummings JE, Burkhardt JD, Bhargava M, Bash D, Brachmann J, Guenther J, Hao S, Beheiry S, Rossillo A, Raviele A, Themistoclakis S, Natale A. Mode of initiation and ablation of ventricular fibrillation storms in patients with ischemic cardiomyopathy. *J Am Coll Cardiol*. 2004 May 5;43(9):1715-20

Cummings JE, Gill I, Akhrass R, Dery M, Biblo LA, Quan KJ. Preservation of the anterior fat pad paradoxically decreases the incidence of postoperative atrial fibrillation in humans. *J Am Coll Cardiol*. 2004 Mar 17;43(6):994-1000.

Chen MS, Marrouche NF, Khaykin Y, Gillinov AM, Wazni O, Martin DO, Rossillo A, Verma A, Cummings JE, Erciyes D, Saad E, Bhargava M, Bash D, Schweikert R, Burkhardt D, Williams-Andrews M, Perez-Lugones A, Abdul-Karim A, Saliba W, Natale A. Pulmonary vein isolation for the treatment of atrial fibrillation in patients with impaired systolic function. *J Am Coll Cardiol*. 2004 Mar 17;43(6):1004-9.

Mineo K, Cummings JE, Josephson R, Nanda NC. Acquired Left Ventricular Outflow Tract Obstruction During Acute Myocardial Infarction: Diagnosis of a New Cardiac Murmur. *Am J Geriatr Cardiol*. 2001 Sep-Oct;10(5):283-5.

Cummings JE, Mineo K, Levey R, Josephson R A. A Review of The DIGAMI Study: Intensive Insulin Therapy During and After Myocardial Infarctions in Diabetic Patients. *Diabetes Spectrum* 1999;12:84-88.

PRESENTATIONS

“Complications in Electrophysiology: Management and Prevention: Complications in Left-Sided Ablation” American College of Cardiology, April 2008.

“Devices and Special Populations” Fifth Annual Atrial Fibrillation Summit, December 2007.

“Avoiding Complications in AF Catheter Ablation” Fifth Annual Atrial Fibrillation Summit, December 2007.

“Antagonist - Ablation should never be performed on the oesophagus” XIII World Congress on Cardiac Pacing & Electrophysiology, December 2007.

“How to Ablate Difficult Substrates – Incisional atrial tachycardia” XIII World Congress on Cardiac Pacing & Electrophysiology, December 2007.



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“Complication of AF Ablation: How to Diagnose, How to Prevent, How to Treat: Atrio-esophageal fistula” Venice Arrhythmias, October 2007.

“Post-AF Ablation Arrhythmias: Frequent supraventricular and ventricular ectopic beats and persistent inappropriate sinus tachycardia: what to do?” Venice Arrhythmias, October 2007.

“Cardiac Arrhythmias: Pediatric Aspects” Venice Arrhythmias, October 2007.

“Emerging Tools and Technologies in Catheter Ablation: New Devices for AF and VT Ablation” Heart Rhythm Society Annual Scientific Sessions, May 2007.

“Cryothermal Ablation and Other Energy Sources in Children and Patients with CHD: Other Energy Sources for Catheter Ablation of Tachycardia Substrates” Heart Rhythm Society Annual Scientific Sessions, May 2007.

“Advanced Mapping/Navigation in Catheter Based Management of AF” Clinical Applications & Beyond Training Seminar: St. Jude, April 2007.

“How to Minimize Implantable Cardioverter Defibrillator Shocks” American College of Cardiology, March 2007.

“A Decade of Changes for Women in Cardiology” American College of Cardiology, March 2007.

Program Coordinator/Moderator: “The Fourth Annual Atrial Fibrillation Summit” September 2006.

“Esophageal Fistulas: Is There a Safe Way?” Atrial Fibrillation Summit, September 2006.

“Controversies in Electrophysiology, Debate: Radiofrequency Ablation Is an Appropriate Initial Therapeutic Strategy for Persistent: Atrial Fibrillation.” Protagonist. Women Physicians in Electrophysiology, October 2006.

“Ablation of AF: Is there a Preferred Method?” Heart Rhythm Society 27th Annual Scientific Sessions, May 2006.

“CATHETER ABLATION V: Complications of AF Ablation” Heart Rhythm Society 27th Annual Scientific Sessions, May 2006.

“Navigating the Changing Seas: Strategies for EP Specialty Development,” Annual Corazon Conference, October 2005.

Heart Rhythm Society May 2004: San Francisco, CA

“Use of a Novel Cooled Radiofrequency Balloon for Pulmonary Vein Antrum Isolation as Treatment of Atrial Fibrillation”, The Cleveland Clinic Foundation, Cleveland, OH.

“Long Term Follow-up in Patients with Complete Occlusion of a Single Pulmonary Vein Following Pulmonary Vein Isolation” (poster) The Cleveland Clinic Foundation, Cleveland, OH.



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“Cardiac Resynchronization Is Equally Beneficial in Patients with Right and Left Bundle Branch Blocks,”
The Cleveland Clinic Foundation, Cleveland, OH.

“Intracardiac Doppler Assessment of Left Atrial Function Immediately Post-Pulmonary Vein Isolation (PVI) May Be Predictive of Short-Term Recurrence of Atrial Fibrillation (AF),” The Cleveland Clinic Foundation, Cleveland, OH.

“Feasibility and Efficacy of Azygos Vein High Voltage Shocking Coils in Achieving Adequate Defibrillation Thresholds,” The Cleveland Clinic Foundation, Cleveland, OH and UCLA Cardiac Arrhythmia Ctr, Los Angeles, CA.

“Reverse Left Atrial Remodeling and Improved Systolic Function after Pulmonary Vein Antrum Isolation for Atrial Fibrillation,” The Cleveland Clinic Foundation, Cleveland, OH.

“Narrowing of the Widest Native QRS May Predict Improvement in Clinical Parameters in Patients with Cardiac Resynchronization Therapy Devices,” The Cleveland Clinic Foundation, Cleveland, OH

“Salvaging Ineffective Defibrillation with a Single High Voltage Subcutaneous Shocking Coil,” The Cleveland Clinic Foundation, Cleveland, OH.

“Electroanatomical Mapping and Ablation of Ventricular Fibrillation (VF) in Patients with Ischemic Cardiomyopathy (ICM),” The Cleveland Clinic Foundation, Cleveland, OH, Klinikum Coburg, Coburg, Germany, Umberto I Hosp, Mestre, Italy and Marin Heart Ctr, San Francisco, CA.

“Prevalence of Atrial Arrhythmias in Heart Transplant Patients,” The Cleveland Clinic Foundation, University Heights, OH.

“Prevalence of Atrial Pacing in Patients Receiving Pacemakers for Sinus Node Dysfunction Following Heart Surgery,” The Cleveland Clinic Foundation, University Heights, OH.

“Cardiac Resynchronization Therapy May Be Less Effective in Patients with Active Pacing at Baseline,” The Cleveland Clinic Foundation, Cleveland, OH.

American College of Cardiology, March 2004

“Left Atrial Flutter Post Pulmonary Vein Isolation: Draw a Line or Reisolation of the Recovered Pulmonary Vein Ostium?” (poster) The Cleveland Clinic Foundation, Cleveland, OH

“Pulmonary Vein Isolation in Patients With Prior Cardiac Surgery,” Cleveland Clinic Foundation, Cleveland, OH

“Pre-Existent Left Atrial Scarring in Patients Undergoing Pulmonary Vein Isolation: An Independent Predictor of Procedural Failure,” The Cleveland Clinic Foundation, Cleveland, OH

“Atrial Tachycardia Originating From the Pulmonary Veins: Is Single Vein Isolation Adequate?” The Cleveland Clinic Foundation, Cleveland, OH

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“Comparative Change in the Left Ventricular Ejection Fraction in Patients Undergoing Biventricular Defibrillator Implantation Using Transvenous Coronary Sinus Versus Epicardial Left Ventricular Leads,” The Cleveland Clinic Foundation, Cleveland, OH

North American Society of Pacing and Electrophysiology (NASPE) (Heart Rhythm Society) 2002

“Preservation of the Anterior Epicardial Fat Pad Paradoxically Decreases Atrial Fibrillation after Coronary Artery Bypass Surgery,” *PACE* 2002 25(4):565

“Identification and Characterization of the Anterior Epicardial Fat Pad In Humans” (poster) *PACE* 2002 25(4):673

AWARDS

American Heart Association – Travel Grant Recipient

Ohio Chapter of the American College of Cardiology
Second Place – Basic Science

Ohio Board of Regents Scholar

1990 – 1994