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Award Winning, Actively Practicing Electrophysiologist. Dartmouth Educated. Cornell and Stanford Trained. Triple Board Certified (Electrophysiology, Cardiology, and Internal Medicine). Vanderbilt Faculty.

EDUCATION

- 2012-2013 Fellow in Cardiac Electrophysiology
Vanderbilt University Medical Center, Nashville, TN
- 2009-2012 Fellow in Cardiovascular Medicine
New York Presbyterian Hospital
Weill-Cornell Medical Center, New York, NY
General Fellowship 2009-2011
Cardiac Electrophysiology 2011-2012
- 2008-2009 Chief Resident in Internal Medicine
Stanford University Medical Center, Stanford, CA
- 2005-2008 Intern and Resident in Internal Medicine
Stanford University Medical Center, Stanford, CA
- 2001-2005 Doctor of Medicine
Vanderbilt University School of Medicine
Nashville, TN
- 1997-2001 Bachelor of Arts, Physics (Cum Laude)
Dartmouth College
Hanover, NH

CLINICAL EXPERIENCE

2013-Present Vanderbilt Heart and Vascular Institute

Cardiac electrophysiologist. Specialist in the diagnosis and treatment of electrical abnormalities (arrhythmias) of the heart. This includes performing specialized procedures such as pacemaker implantation, implantable cardioverter defibrillator placement, implantation of left atrial appendage occlusion devices and catheter ablation for the full spectrum of arrhythmias (supraventricular tachycardia, atrial fibrillation and ventricular tachycardia).

LICENSURE AND CERTIFICATION

2013 Board Certification in Cardiac Electrophysiology
2012 Board Certification in General Cardiology
2008 Board Certification in Internal Medicine
2012- present Tennessee Medical License (# 50184)

ACADEMIC APPOINTMENTS

2018- Present Program Director-Cardiac Electrophysiology Fellowship
2014- 2018 Associate Program Director- Cardiac Electrophysiology Fellowship
2013- Present Assistant Professor- Cardiac Electrophysiology
Vanderbilt Heart & Vascular Institute
2008-2009 Clinical Instructor of Medicine
Stanford University Medical Center, Stanford, CA

PROFESSIONAL ORGANIZATIONS

2007-present American College of Cardiology
2009-present American Heart Association
2008-present Heart Rhythm Society
2017-present Fellow of Heart Rhythm Society

PROFESSIONAL ACTIVITIES

International Experience

- Medical Mission Clinics for Indigenous Kechuans in Cusco, Peru; 2004
- Tucker Fellowship: Founded and Implemented a Volunteer Program at Dartmouth Medical Center Emergency Department; 2000

Honors & Awards

2018 Best Doctors
2017 Best Doctors
2016 Best Doctors
2015 Best Doctors
2000 Dartmouth Presidential Scholar
1999 Citation for Highest Grade in Organic Chemistry

PUBLICATIONS AND PRESENTATIONS

Publications

1. **Kanagasundram AN**, John RM, Stevenson WG. Ventricular Tachycardia Ablation in Patients With Implantable Cardioverter Defibrillators Should No Longer Be a Therapy of Last Resort. *Circulation*. 2018 May 1; 137 (18). PMID 29712693

2. John RM, **Kanagasundram AN**, Stevenson WG. Inducibility Conundrum for Ablation of Ventricular Tachycardia: Are We Done Yet? *Circ Arrhythm Electrophysiol.* 2018 Mar; 11(3). PMID 29545364.
3. **Kanagasundram AN**, Lugo RM, Michaud GF. Ventricular Tachycardia Ablation: Are We in a New Age? *Circ Arrhythm Electrophysiol.* 2017 Dec; (10)12. PMID 29254948
4. Richardson T, Lugo R, Saavedra P, Crossley G, Clair W, Shen S, Estrada JC, Montgomery J, Shoemaker MB, Ellis C, Michaud GF, Lambright E, **Kanagasundram AN**. Cardiac sympathectomy for the management of ventricular arrhythmias refractory to catheter ablation. *Heart Rhythm* 2018 Jan; 15(1):56-62. PMID 28917558
5. Farrell M, Yoneda Z, Montgomery J, Crawford D, Wray LL, Xu M, Kolek MJ, Richardson T, Lugo R, Metawee M, Michaud G, Estrada JC, Saavedra P, Shen S, **Kanagasundram A**, Ellis CR, Crossley G, Roden D, Shoemaker MB. Non-pulmonary vein mediated atrial fibrillation: A novel sub-phenotype. *PLoS One.* 2017 Sep 7;12(9):e0184354. PMID 28880943
6. Bersell K, Montgomery JA, **Kanagasundram AN**, Campbell CM, Chung WK, Macaya D, Konecki D, Venter E, Shoemaker MB, Roden DM. Partial Duplication and Poly(A) Insertion in KCNQ1 Not Detected by Next-Generation Sequencing in Jervell and Lange-Nielsen Syndrome. *Circ Arrhythm Electrophysiol.* 2016 Jun; 9(6). PMID 27286732
7. Montgomery JA, Abdallah W, Yoneda ZT, Brittain E, Aznaurov SG, Parvez B, Adkins K, Whalen SP, Estrada JC, Shen S, Crossley GH, **Kanagasundram A**, Saavedra P, Ellis CR, Lawson M, Darbar D, Shoemaker MB. Measurement of diffuse ventricular fibrosis with myocardial TI in patients with atrial fibrillation. *J Arrhythm.* 2016 Feb;32(1):51-6. PMID 26949431
8. Montgomery, JA, **Kanagasundram AN**, Clair WK, Rottman JN, Crossley GH. Sudden Cardiac Death Despite a Functional Cardioverter- Defibrillator: The Case for Early and aggressive Therapy for Ventricular Tachycardia in Selected Patients. *J Cardiovasc Electrophysiol.* 2016 Jan; 27(1): 120-4. PMID 26511459
9. Kolek MJ, Patel NJ, Clair WK, Whalen SP, Rottman JN, **Kanagasundram A**, Shen ST, Saavedra PJ, Estrada JC, Abraham RL, Ellis CR. Efficacy of a Bio-Absorbable Anti-bacterial Envelope to Prevent Cardiac Implantable Electronic Device Infections in High-Risk Subjects. *J Cardiovasc Electrophysiol.* 2015 Oct; 26(10):1111-6. PMID 26222980
10. Hindricks G, Shoemaker MB, Husser D, Arya A, Sommer P, Rolf S, Saavedra P, **Kanagasundram A**, Patrick Whalen S, Montgomery J, Ellis CR, Darbar D, Bollmann A. The APPLE score: a novel and simple score for the prediction of rhythm outcomes after catheter ablation of atrial fibrillation. *Clin Res Cardiol* 2015 Apr 17. PMID 25876528
11. Shoemaker MB, Bollmann A, Lubitz SA, Ueberham L, Saini H, Montgomery J, Edwards T, Yoneda Z, Sinner MF, Arya A, Sommer P, Delaney J, Goyal SK, Saavedra

P, **Kanagasundram A**, Whalen SP, Roden DM, Hindricks G, Ellis CR, Ellinor PT, Darbar D, Husser D. Common genetic variants and response to atrial fibrillation ablation. *Circ Arrhythmia Electrophysiol*. 2015 Apr; 8 (2). PMID: 25684755

12. Pandey AK, **Kanagasundram A**, Raj SR. Deglutition Syncope: does fluid temperature matter? *J Am Coll Cardiol*. 2014 May; 63 (20). PMID 24703921

13. **Kanagasundram AN**, Baduashvili A, Liu CF, Cheung JW, Thomas G, Ip JE, Young SD, Lerman BB, Markowitz SM. A Novel Criterion for Conduction Block after Catheter Ablation of Right Atrial Tachycardia after Mitral Valve Surgery. *Circ Arrhythm Electrophysiol* 2012 Dec 16. PMID: 23243191

Book Chapters

1. Christopher R Ellis, **Arvinth N Kanagasundram**. “Wolff- Parkinson-White Syndrome and Atrioventricular Reciprocating Tachycardia: Color Atlas of Cardiovascular Disease” Jaypee Brothers Medical Publishers; First Edition 2015.
2. **Kanagasundram, A**; Ardehali, R; Wang, P; Froelicher, V. Book Chapter “Non-invasive Stress Testing: A Practical Approach to Cardiovascular Medicine” Wiley & Sons; First edition published 2011.

Presentations

1. Hannah Fish-Trotter, MD, Ricardo Lugo, MD, Sushan Yang, MD, Rebecca R. Hung, MD, PhD and **Arvinth N. Kanagasundram, MD**.” Electroanatomic Mapping In a Patient with Danon Disease”. Heart Rhythm Society's 39th Annual Scientific Sessions, 2018.
2. Tomofumi Nakamura, Giovanni Davogusto, Benjamin Schaeffer, Shinichi Tanigawa, Rahul Muthalaly, Usha Tedrow, **Arvinth Kanagasundram**, Roy John, Gregory Michaud, and William Stevenson. “Relation Of Anticoagulation To Complications During Percutaneous Epicardial Access For Catheter Ablation.” Heart Rhythm Society's 39th Annual Scientific Sessions, 2018.
3. **Christopher Ellis**, Sara Negrotto, Ricardo Miguel. Lugo, Mohamed I. Metawee, Geoffrey Chidsey, Michael Baker, **Arvinth Kanagasundram** and Robert Piana. “ Left Atrial Appendage Morphology Predicts the Formation of Left Atrial Appendage Thrombus” Heart Rhythm Society's 39th Annual Scientific Sessions, 2018.
4. Asad Aboud, Sushan Yang, Jay Montgomery, Ricardo M Lugo, Pablo Saavedra, Juan Carlos Estrada, Sharon Shen, Walter Clair, Robert Abraham, George Crossley, Christopher Ellis, Quinn Wells, Yan Ru Su, Benjamin Shoemaker, **Arvinth Kanagasundram**.” Longer Time to VT Ablation Correlates With More Complex Ventricular Substrate”. American Heart Association’s Scientific Sessions 2017.
5. Breck C Sandvall, Ricardo Lugo, Jay Montgomery, Asad A Aboud, Pablo Saavedra, Juan C Estrada, Sharon Shen, Walter Clair, Robert Abraham, George Crossley, Christopher R Ellis, M. Benjamin Shoemaker, **Arvinth N Kanagasundram**. “Long Term Follow-up in

Patients With Prior Electrical Storm Undergoing Ventricular Tachycardia Ablation”. American Heart Association’s Scientific Sessions 2017.

6. Lugo R, Yang S, Aboud A, Blair M, Tomacek K, Su Y, Gupta D, Shoemaker B, Wells Q, **Kanagasundram A**. Poster Presentation. “Serum B-type Natriuretic Peptide at the Time of Ventricular Tachycardia Ablation Correlates with Myocardial Substrate”. American Heart Association’s Scientific Sessions 2016.
7. Aboud A, Shoemaker, M, Saavedra, P, Estrada JC, Shen S, Clair W, Rottman J, Abraham R, Crossley G, Ellis C, **Kanagasundram A**. Poster Presentation. “Ablation of regions of very slow conduction within myocardial scar and recurrence of ventricular tachycardia after ablation”. American Heart Association’s Scientific Sessions 2015.
8. **Kanagasundram, A**; Ellis, C; Whalen, P. Oral Presentation “Successful epicardial cryoablation of crux ventricular tachycardia not amenable to radiofrequency ablation.” Heart Rhythm Society's 35th Annual Scientific Sessions, 2014
9. **Kanagasundram, A**; Whalen, P; Ellis, C. Poster Presentation. “Epicardial hybrid ablation for ventricular tachycardia storm using a novel ablation catheter.” Heart Rhythm Society's 35th Annual Scientific Sessions, 2014
10. **Kanagasundram, A**; Markowitz, S. Poster Presentation “Complex Patterns of Right Atrial Activation and Block in Patients with Atrial Tachycardias after Mitral Valve Surgery” Heart Rhythm Society's 33rd Annual Scientific Sessions, 2012
11. **Kanagasundram, A**; Feldman, D. Poster Presentation “Long-Term Survival following Saphenous Vein Graft versus Native Vessel Percutaneous Coronary Interventions in the Contemporary Drug-Eluting Era” American College of Cardiology 60th Annual Scientific Sessions, 2011
12. **Kanagasundram, A**; Wang, P. Poster Presentation “Initiation Patterns of Ventricular Arrhythmias Determined from Analysis of Intracardiac Electrograms in the MADIT II Database” American College of Cardiology 56th Annual Scientific Sessions, 2007
13. **Kanagasundram, A**. Poster Presentation “Calciphylaxis: Hard to diagnose, harder to treat” American College of Physicians Western Conference 2005