

# Circulation: Arrhythmia and Electrophysiology

An American Heart  
Association Journal

January 2018  
Volume 11  
Number 1

## **CIRCULATION: ARRHYTHMIA AND ELECTROPHYSIOLOGY MASTHEAD**

**Circulation: Arrhythmia and Electrophysiology Editors and Editorial Board** e000027

## **IN THIS ISSUE: JANUARY**

### **ORIGINAL ARTICLES**

**Effect of Baseline Antiarrhythmic Drug on Outcomes With Ablation in Ischemic Ventricular Tachycardia: A VANISH Substudy (Ventricular Tachycardia Ablation Versus Escalated Antiarrhythmic Drug Therapy in Ischemic Heart Disease)** e005663

*Ratika Parkash, MD, MS; Isabelle Nault, MD; Lena Rivard, MD, MSc; Lorne Gula, MD; Vidal Essebag, MD, PhD; Pablo Nery, MD; Stanley Tung, MD; Jean-Marc Raymond, MD; Laurence Sterns, MD; Steve Doucette, MSc; George Wells, PhD; Anthony S.L. Tang, MD; William G. Stevenson, MD; John L. Sapp, MD*

**Identification and Characterization of Sites Where Persistent Atrial Fibrillation Is Terminated by Localized Ablation** e005258

*Junaid A.B. Zaman, MA, BMBCh, MRCP; William H. Sauer, MD; Mahmood I. Alhusseini, MS; Tina Baykaner, MD, MPH; Ryan T. Borne, MD; Christopher A.B. Kowalewski, MS; Sonia Busch, MD; Paul C. Zei, MD, PhD; Shirley Park, MD; Mohan N. Viswanathan, MD; Paul J. Wang, MD; Johannes Brachmann, MD; David E. Krummen, MD; John M. Miller, MD; Wouter Jan Rappel, PhD; Sanjiv M. Narayan, MD, PhD; Nicholas S. Peters, MD*

**Machine Learning Algorithm Predicts Cardiac Resynchronization Therapy Outcomes: Lessons From the COMPANION Trial** e005499

*Matthew M. Kalscheur, MD; Ryan T. Kipp, MD; Matthew C. Tattersall, DO, MS; Chaoqun Mei, MS; Kevin A. Buhr, PhD; David L. DeMets, PhD; Michael E. Field, MD; Lee L. Eckhardt, MD; C. David Page, PhD*

#### **Editorial**

**Computer Modeling: The Future of Cardiac Resynchronization Therapy Patient Selection?** e006104

*Daniel B. Cobb, MD; Michael R. Gold, MD, PhD*

**Transvenous Lead Extraction in Chronic Kidney Disease and Dialysis Patients With Infected Cardiac Devices** e005706

*Amr F. Barakat, MD; Oussama M. Wazni, MD; Khaldoun G. Tarakji, MD, MPH; Thomas Callahan, MD; Nayef Nimri, MD; Walid I. Saliba, MD; Shailee Shah, MD; Karim Abdur Rehman, MD; John Rickard, MD; Michael P. Brunner, MD; David O. Martin, MD, MPH; Mohamed Kanj, MD; Bryan Baranowski, MD; Daniel Cantillon, MD; Mark Niebauer, MD; Thomas Dresing, MD; Bruce D. Lindsay, MD; Bruce L. Wilkoff, MD; Ayman A. Hussein, MD*

#### **Editorial**

**Cardiac Implantable Electronic Device Infections and Lead Extraction: Are Patients With Renal Insufficiency Special?** e006101

*Jonathan Chrispin, MD; Charles J. Love, MD, CCDS*

**Differential Expression and Remodeling of Transient Outward Potassium Currents in Human Left Ventricles** e005914

*Eric K. Johnson, PhD; Steven J. Springer, PhD; Wei Wang, PhD; Edward J. Dranoff, BS; Yan Zhang, MD, PhD; Evelyn M. Kanter, BS; Kathryn A. Yamada, PhD; Jeanne M. Nerbonne, PhD*

**Inward Rectifier Potassium Channels (Kir2.x) and Caveolin-3 Domain-Specific Interaction: Implications for Purkinje Cell-Dependent Ventricular Arrhythmias** e005800

*Ravi Vaidyanathan, PhD; Hanora Van Ert, BS; Kazi T. Haq, PhD; Stefano Morotti, PhD; Samuel Esch, ME; Elise C. McCune; Eleonora Grandi, PhD; Lee L. Eckhardt, MD*

## ORIGINAL ARTICLES

---

**Quantification of the Arrhythmogenic Effects of Spontaneous Atrial Extrasystole Using High-Resolution Epicardial Mapping** e005745

*Christophe P. Teuwen, MD; Charles Kik, MD; Lisette J.M.E. van der Does, MD; Eva A.H. Lanfers, MD; Paul Knops, BSc; Elisabeth M.J.P. Mouws, MD; Ad J.J.C. Bogers, MD, PhD; Natasja M.S. de Groot, MD, PhD*

**Idiopathic Ventricular Arrhythmias Originating From the Vicinity of the Communicating Vein of Cardiac Venous Systems at the Left Ventricular Summit** e005386

*Yuki Komatsu, MD; Akihiko Nogami, MD; Yasutoshi Shinoda, MD; Keita Masuda, MD; Takeshi Machino, MD; Kenji Kuroki, MD; Hiro Yamasaki, MD; Yukio Sekiguchi, MD; Kazutaka Aonuma, MD*

### Editorial

**Ventricular Arrhythmias Linked to the Left Ventricular Summit Communicating Veins: A New Mapping Approach for an Old Ablation Problem** e006105

*Daniele Muser, MD; Pasquale Santangeli, MD, PhD*

**Mortality After Magnetic Resonance Imaging of the Brain in Patients With Cardiovascular Implantable Devices** e005480

*Deepak Padmanabhan, DM; Mary L. Jondal, RN; David O. Hodge, MS; Ramila A. Mehta, MS; Nancy G. Acker, RN; Connie M. Dalzell, RN; Suraj Kapa, MD; Samuel J. Asirvatham, MD; Yong-Mei Cha, MD; Joel P. Feinlee, PhD; Robert E. Watson Jr, MD, PhD; Paul A. Friedman, MD*

## RESEARCH LETTER

---

**Standard Ablation Versus Magnetic Resonance Imaging–Guided Ablation in the Treatment of Ventricular Tachycardia** e005973

*Tarek Zghaib, MD; Esra G. Ipek, MD; Rozann Hansford, RN; Hiroshi Ashikaga, MD, PhD; Ronald D. Berger, MD, PhD; Joseph E. Marine, MD; David D. Spragg, MD; Harikrishna Tandri, MD; Stefan L. Zimmerman, MD; Henry Halperin, MD, MA; Scott Brancato, MD; Hugh Calkins, MD; Charles Henrikson, MD, MPH; Saman Nazarian, MD, PhD*

## CHALLENGE OF THE WEEK

---

**January 8th Question** e006122  
*Amit Noheria, MBBS, SM*

**January 15th Question** e006125  
*Amit Noheria, MBBS, SM*

CIRCULATION: ARRHYTHMIA AND ELECTROPHYSIOLOGY (ISSN 1941-3084) is published monthly online-only by Wolters Kluwer Health, Inc. at 14700 Citicorp Drive, Bldg 3, Hagerstown, MD 21742. Business offices are located at Two Commerce Square, 2001 Market Street, Philadelphia, PA 19103. Production offices are located at 351 West Camden Street, Baltimore, MD 21201-2436. AHA/ASA Domestic or International Members have online access to the journal as a benefit of membership. Individuals may subscribe for their personal use at the following annual rates world-wide: \$340 for non-members. AHA membership information can be found online at [professional.heart.org](http://professional.heart.org).

11 (1)

*Circ Arrhythm Electrophysiol.* 2018;11:

*Circulation: Arrhythmia and Electrophysiology* is published by the American Heart Association, 7272 Greenville Avenue, Dallas, TX 75231

Copyright © 2018 American Heart Association, Inc. All rights reserved.

Print ISSN: 1941-3149. Online ISSN: 1941-3084

The online version of this article, along with updated information and services, is located on the World Wide Web at:

<http://circep.ahajournals.org/content/11/1>

**Permissions:** Requests for permissions to reproduce figures, tables, or portions of articles originally published in *Circulation: Arrhythmia and Electrophysiology* can be obtained via RightsLink, a service of the Copyright Clearance Center, not the Editorial Office. Once the online version of the published article for which permission is being requested is located, click Request Permissions in the middle column of the Web page under Services. Further information about this process is available in the [Permissions and Rights Question and Answer](#) document.

**Reprints:** Information about reprints can be found online at:  
<http://www.lww.com/reprints>

**Subscriptions:** Information about subscribing to *Circulation: Arrhythmia and Electrophysiology* is online at:  
<http://circep.ahajournals.org/subscriptions/>