

# T Wave Alternans at HRS 2011

## Presentation

## Session

- [PO4-55 - Repolarization Alternans Reveals Vulnerability to Human Atrial Fibrillation](#)  
Siva K. Mulpuru, MD, Michael R. Franz, MD, PhD, Paul Clopton, MS, Etienne Pruvot, MD, David E. Krummen, MD and Sanjiv M. Narayan, MB, FHRS.  
University of California and Veterans Affairs Medical Center, San Diego, CA, Veterans Affairs Medical Center, Washington, DC, Centre Hospital Universitaire, Lausanne, Switzerland, University of California and Veterans Affairs Medical Center, San Diego, NY
- [PO5-112 - Oxidative Stress Promotes Arrhythmogenic Cardiac Alternans: Role of Calcium Cycling and the Late Sodium Current](#)  
Lance D. Wilson, MD, Michael J. Cutler, DO, PhD, Bradley N. Plummer, BS, Kenneth R. Laurita, PhD and David S. Rosenbaum, MD.  
Metrohealth Campus of Case Western Reserve University, Cleveland, OH
- [PO6-128 - Heart Failure Decreases Restitution Curve Slopes and Alternans Amplitude in a Canine Monophasic Action Potential Study](#)  
David Gordon, MD, PhD, Rishi Arora, MD, Roger Villuendas, MD, Brandon Benefield, MS, Ivan Cokic, MD, Alan H. Kadish, MD, Jeffrey J. Goldberger, MD and Jason Ng, PhD.  
Northwestern Univ, Chicago, IL
- [Thu, May 5, 1:30 - 1:50 PM YIA-01 - SERCA2a as a Novel Mechanism and Therapeutic Target for Arrhythmogenic Cardiac Alternans in Heart Failure](#)  
Michael J. Cutler, DO, PhD, Xiaoping Wan, MD, PhD, Bradley N. Plummer, BS, Isabelle Deschenes, PhD, Kenneth R. Laurita, PhD, Roger J. Hajjar, MD and David S. Rosenbaum, MD.  
MetroHealth Medical Center, Case Western Reserve

## Poster Session

[PO04. Poster Session IV](#)  
[Fri, May 6, 9:00 AM - 12:00 PM](#)

## Poster Session

[PO05. Poster Session V](#)  
[Fri, May 6, 2:00 - 5:00 PM](#)

## Poster Session

[PO06. Poster Session VI](#)  
[Sat, May 7, 9:00 AM - 12:00 PM](#)

## Special Session

[SP14. Young Investigators Award Competition](#)  
[Thu, May 5, 1:30 - 3:30 PM](#)

University, Cardiology,  
Cleveland, OH, Mount Sinai  
Heart, Mount Sinai Medical  
Center, New York, NY

□ [PO5-157 - Evidence for  
Microvolt T-wave  
Alternans as a Mechanism  
for Amplified Spatial  
Dispersion of  
Repolarization in Humans](#)

Tilak Pasala, MD and  
Elizabeth S. Kaufman, MD.  
MetroHealth Campus of Case  
Western Reserve University,  
Cleveland, OH

[Poster Session](#)  
[PO05. Poster Session V](#)  
[Fri, May 6, 2:00 - 5:00 PM](#)

□ [PO2-159 - Clinical Utility  
Of Microvolt T-wave  
Alternans Testing In  
Identifying Patients At  
High Or Low Risk Of  
Sudden Cardiac Death](#)

Faisal M. Merchant, MD, Hui  
Zheng, PhD, Takanori Ikeda,  
MD, PhD, Roberto F.E..  
Pedretti, MD, Jorge A.  
Salerno-Uriarte, MD,  
Theodore Chow, MD, Paul S.  
Chan, MD, DMSc, Cheryl  
Bartone, BS, Stefan H.  
Hohnloser, MD, Jeremy N.  
Ruskin, MD, Richard J.  
Cohen, MD, PhD and  
Antonis A. Armoundas, PhD.  
Cardiology Division, Emory  
University School of  
Medicine, Atlanta, GA,  
Biostatistics Center,  
Massachusetts General  
Hospital, Boston, MA,  
Second Department of  
Internal Medicine, Kyorin  
University School of  
Medicine, Tokyo, Japan,  
Division of Cardiology,  
Institute of Tradate, Tradate,  
Italy, Department of Heart  
Sciences, Ospedale di Circolo  
e Fondazione Macchie,  
University of Insubria,  
Varese, Italy, Regional  
Medical Center of San Jose,  
San Jose, CA, Mid-America  
Heart Institute and University  
of Missouri, Kansas City,  
MO, Lindner Clinical Trial  
Center at the Christ Hospital  
and the Ohio Heart and  
Vascular Center, Cincinnati,  
OH, Division of Clinical  
Electrophysiology,

[Poster Session](#)  
[PO02. Poster Session II](#)  
[Thu, May 5, 9:00 AM - 12:00  
PM](#)

Department of Cardiology, J. W. Goethe University, Frankfurt, Germany, Cardiology Division, Massachusetts General Hospital, Boston, MA, Harvard-MIT Division of Health Sciences and Technology, Massachusetts Institute of Technology, Cambridge, MA, Cardiology Division, Massachusetts General Hospital and Harvard-MIT Division of Health Sciences and Technology, Massachusetts Institute of Technology, Charlestown, MA

- [PO4-157 - Body Surface Distribution of T wave alternans is Modulated by Heart Rate and Ventricular Activation Sequence in Patients with Cardiomyopathy: Implications for Misinterpreting a "Negative Test"](#)

Behnaz Ghoraani, PhD, Adrian M. Suszko, BSc, Raja J. Selvaraj, MD, Ann Hill, RN, Sridhar Krishnan, PhD and Vijay S. Chauhan, MD, FRCP. University Health Network, Toronto, ON, Canada, Ryerson University, Toronto, ON, Canada

[Poster Session](#)  
[PO04. Poster Session IV](#)  
[Fri, May 6, 9:00 AM - 12:00 PM](#)

- [PO5-165 - Does T-Wave Alternans Determine Heterogeneity of <sup>123</sup>I-metaiodobenzylguanidine-derived Radioactivity Uptake in Patients with Dilated Cardiomyopathy?](#)

Sang-Hee Lee, MD, Dong-gu Shin, MD, PhD, Jong-Seon Park, MD, PhD, Jang-won Sohn, MD, Gue-Ru Hong, MD, PhD, Chang-woo Sohn, MD and Young-Jo Kim, MD, PhD. Yeungnam University Hospital, Daegu, Korea, Republic of

[Poster Session](#)  
[PO05. Poster Session V](#)  
[Fri, May 6, 2:00 - 5:00 PM](#)

- [PO6-155 - T Wave Alternans in Short QT Syndrome](#)

Jean-Philippe Maury, MD, Fabrice Extramiana, MD, Daniele Marangoni, MSc, Alexandre Duparc, MD, Pierre Mondoly, MD, Anne Rollin, MD, Cristelle Cardin, MD, Marc Delay, MD, Isabelle Denjoy, MD, Carla Giustetto, MD and Antoine Leenhardt, MD. Hopital de Rangueil, Toulouse, France, University Hospital

[Poster Session](#)  
[PO06. Poster Session VI](#)  
[Sat, May 7, 9:00 AM - 12:00 PM](#)

Lariboisière, Paris, France, no institution, Verona, Italy, General Massaia Hospital, Asti, Italy

- [Fri, May 6, 10:10 - 10:20 AM](#)  
[MP03-5 - Intracardiac T-wave Alternans Predicts Imminent Ventricular Tachyarrhythmias in ICD Patients](#)

Charles Swerdlow, MD, Theodore Chow, MD, Mithilesh K. Das, MD, MBBS, Anne Gillis, MD, Xiaohong Zhou, MD, Athula I. Abeyratne, PhD and Raja N. Ghanem, PhD. Cedars-Sinai Medical Center, Los Angeles, CA, Heart & Vascular Associates, San Jose, CA, Methodist Hospital, Indianapolis, IN, University of Calgary, Calgary, AB, Canada, Medtronic, Inc., Moundsview, MN

[Moderated Poster Session](#)  
[MP03. Risks and Predictors of ICD Shocks](#)  
[Fri, May 6, 9:30 - 10:30 AM](#)

- [PO4-139 - Effect of Positive Inotropic Agents on Mechanical Alternans in Decompensated Heart Failure Patients Admitted to the Intensive Cardiac Care Unit](#)

Ruidi Wang, BS, Robert Kim, No Degree, Steven Schulman, MD, Rhondalyn McLean, MD, Ilan Wittstein, MD, Oscar Cingolani, MD, Elizabeth Robinson, RN, Jeffrey Brinker, MD, Charles Henrikson, MD, MPH, Hugh Calkins, MD, Ronald Berger, MD, PhD and Larisa Tereshchenko, MD, PhD. Johns Hopkins University School of Medicine, Baltimore, MD, Johns Hopkins University, Baltimore, MD

[Poster Session](#)  
[PO04. Poster Session IV](#)  
[Fri, May 6, 9:00 AM - 12:00 PM](#)

- [Fri, May 6, 5:30 - 5:50 PM](#)  
[T Wave Alternans](#)

John E. Madias, MD. Mount Sinai School of Medicine of the New York Uni, Elmhurst, NY

[Core Curriculum](#)  
[233. Risk Stratification for SCD in Patients with Ischemic Cardiomyopathy](#)  
[Fri, May 6, 4:30 - 6:00 PM](#)