Alternans

Presentation

Thu, May 14, 1:30 - 1:45 PM
AB10-1 - Combined Assessment of Heart Rate Recovery and T-Wave Alternans during Routine Exercise Testing Improves Prediction of Total and Cardiovascular Mortality: The Finnish Cardiovascular Study

Johanna Leino, BSc, Mikko Minkkinen, BSc, Tuomo Nieminen, MD, PhD, Terho Lehtimäki, MD, PhD, Jari Viik, PhD, Rami Lehtinen, PhD, Kjell Nikus, MD, Tiiu Koobi, MD, PhD, Vaino Turjanmaa, MD, PhD, Richard L. Verrier, PhD and Mika Kahonen, MD, PhD. University of Tampere Medical School, Tampere, Finland, Tampere University Hospital, Tampere, Finland, Beth Israel Deaconess Medical Center Harvard Medical School, Boston, MA

Session

Abstract Session

AB10. New Age Noninvasive Risk Stratification

Thu, May 14, 1:30 - 3:00 PM

Fri, May 15, 10:30 AM - 10:45 AM
AB43-1 - High Predictivity for Mortality with Combined Analysis of Exercise Capacity, Heart Rate Recovery and T-Wave Alternans During Routine Exercise Testing

Mikko Minkkinen, BS, Tuomo Nieminen, MD, PhD, Richard L. Verrier, Johanna Leino, BS, Terho Lehtimäki, MD, PhD, Jari Viik, PhD, Rami Lehtinen, PhD, Kjell Nikus, MD, Tiiu Koobi, MD, PhD, Väinö Turjanmaa, MD, PhD and Miika Kähönen, MD, PhD. Medical School, University of Tampere, Tampere, Finland, Department of Pharmacological Sciences, Medical School, University of Tampere, Tampere, Finland

Fri, May 15, 4:55 - 5:15 PM
AB34-3 - Intracardiac Electrogram T-wave Alternans Increases Before Spontaneous Ventricular Tachyarrhythmias in ICD Patients: A Prospective, Multicenter Study

Charles Swerdlow, MD, FHRS, CCDS, Theodore Chow, MD, Mithilesh Das, MD, Ann Gillis, MD, Xiaohong Zhou, MD and Raja N. Ghanem, PhD. Cedars-Sinai Medical Center, Los Angeles, CA, Ohio Heart and Vascular Center, Cincinnati, OH, Indiana University School of Medicine, Indianapolis, IN, University of Calgary School of Medicine, Calgary, AB, Canada, Medtronic, Inc, Mounds View, MN

Fri, May 15, 11:00 - 11:15 AM
AB04-3 - Alternans of Left Atrial Action Potentials Occurs Immediately Prior to Human Atrial Fibrillation

Sanjiv M. Narayan, MD, PhD, FHRS, MB and David E. Krummen, MD. University of California, San Diego VA Medical Center, San Diego, CA

Thu, May 14, 2:00 - 2:15 PM
PO02-11 - T Wave Alternans Observed on Intracardiac Bipolar Electrograms Predicts Ischemic Ventricular Tachycardia Due to Focal Mechanisms

James B. Martins, MD, Ashok Chaudhary, PhD, Dezhi Xing, MD, Debra Ely, PhD and Edwin Dove, PhD. University of Iowa, Iowa City, IA

PO01-13 - Blockage of Ito Leads to Discordant Alternans Formation in the RV but not LV of the Rabbit Heart

Elena Tolkacheva, PhD, Arvydas Matiukas, PhD and Sergei Mironov, PhD. University of Minnesota, Minneapolis, MN, SUNY Upstate Medical University, Syracuse, NY, University of Michigan, Ann Arbor, MI

Thu, May 14, 8:20 - 8:35 AM
PO01-11 - Role of Adjunct Noninvasive Measurements (T Wave Alternans, etc)

Jeffrey J. Goldberger, MD, FHRS. Northwestern Memorial Hospital, Chicago, IL

Core Curriculum

117. SCD Prevention: Risk Stratification Beyond EF
Fri, May 15, 4:30 - 6:00 PM

AB43. VT/VF Summit

Fri, May 15, 10:30 AM - 12:00 PM
AB34. ICD Clinical Trials

Fri, May 15, 10:30 AM - 12:00 PM

Debate

16. Non-Invasive Risk Stratification for SCD in Structural Heart Disease
Thu, May 14, 8:00 - 8:45 AM

Abstract Plus Session

AB04. Atrial Fibrillation Mechanisms
Thu, May 14, 1:30 - 3:00 PM

Poster Session

POST02. Poster Session II
Thu, May 14, 9:00 AM - 12:00 PM

Poster Session

POST01. Featured Poster Session
Wed, May 13, 5:45 - 7:00
PO05-79 - Balance of Electrogenic INCX / ICa Currents Underlies Repolarization Alternans
Xiaoping Wan, PhD, Michael J. Cutler, DO, PhD and David S. Rosenbaum, MD. Heart and Vascular Research Center, MetroHealth Campus, Case Western Reserve University, Cleveland, OH
Poster Session POST05. Poster Session V Fri, May 15, 2:00 - 5:00 PM

PO03-81 - Reduced Ca Uptake Lowers the Threshold for Action Potential and T-wave Alternans at Fast Rates: A Clinical and Modeling Study
Jason Bayer, MS, Sanjiv M. Narayan, MD, FRCP, Gautam G. Lalani, MD, Gernot Plank, PhD and Natalia A. Trayanova, PhD. Johns Hopkins University, Baltimore, MD, University of California, San Diego, CA, University of Oxford, Oxford, United Kingdom
Poster Session POST03. Poster Session III Thu, May 14, 2:00 - 5:00 PM

PO05-81 - Action Potential Duration Alternans and Structural Barriers as Cooperative Substrates for Reentry
Zoar Engelman, MS, Mark L. Trew, PhD and Bruce H. Smaill, PhD. Auckland Bioengineering Institute, University of Auckland, Auckland, New Zealand
Poster Session POST05. Poster Session V Fri, May 15, 2:00 - 5:00 PM

PO03-101 - Sudden Cardiac Death Risk in Dialysis Patients: Role of Autonomic Dysfunction and T-Wave Alternans
Rod S. Passman, MD, Eric Secemsky, MD, Gerald Cooke, MD, Cybele Ghossein, MD, Haris Subacius, PhD, Amin Manuchery, MD, Amy Miller, RN and Richard Verrier, PhD. Northwestern University, Chicago, IL, Beth Israel Medical Center, Boston, MA
Poster Session POST03. Poster Session III Thu, May 14, 2:00 - 5:00 PM

PO04-104 - Ambulatory ECG Evaluation of T Wave Alternans Using the Modified Moving Average Method. Methodological Considerations and Prognostic Significance
Derek V. Exner, MD, MPH, Martha Decker, , Anne Berard, RRT, Linda Ellis, BSc, Darlelu Ramadan, RN, Katherine M. Kavanagh, MD and Linda Brent Mitchell, MD. Libin Cardiovascular Institute, Calgary, AB, Canada
Poster Session POST04. Poster Session IV Fri, May 15, 9:00 AM - 12:00 PM

PO06-110 - Novel Resonant Pacing Detectors of Microvolt T Wave Alternans Are Not Predictive of Future Ventricular Tachyarrhythmias
Roopinder K. Sandhu, MD, David S. Rosenbaum, MD and Ottorino Costantini, MD. Case Western Reserve University - MetroHealth Campus, Cleveland, OH
Poster Session POST06. Poster Session VI Sat, May 16, 9:00 AM - 12:00 PM