Saturday June 24th, 2017, 08:30

Collaborative Life Sciences Building

Clinical ECG Fundamentals

Room: Rm. 1 - 3A003A

Chair(s): Charles Henrikson, MD MPH (USA) and Zachary D. Goldberger MD MS (USA)

Length (minutes)

15  Peter Jessel, MD
Oregon Health & Science University, United States of America
Is my patient in a life-threatening arrhythmia? Differential diagnosis of ventricular and supraventricular arrhythmia on 12-lead ECG

15  Thomas Dewland, MD
Oregon Health & Science University, United States of America
Mechanistic diagnosis of atypical atrial flutter from the ECG

15  Samuel Sclarovsky, MD
Tel Aviv University Sackler Faculty of Medicine, Israel
Mechanistic diagnosis of atypical atrial flutter from the ECG

15  Miquel Fiol, MD PhD
Hospital Universitario Virgen del Rocio, Spain
ECG in Emergency patients with chest pain

15  Charles Henrikson, MD MPH
Oregon Health & Science University, United States of America
AV block after TAVR: can we predict it and prevent complications?

15  Panel Discussion
All questions saved for panel discussion for all speakers to address as a group
Saturday June 24th, 2017, 08:30

Collaborative Life Sciences Building

Rapid Fire Abstracts

Room: Rm. 2 - 3A003B

Chair(s): Larisa Tereshchenko, MD PhD (USA) and Peter MacFarlane, DSc FRCP (UK)

Length (minutes)

5 + 3 Q&A  Daniel Cortez, MD (USA)
Derived-VCG and cardiac catheterization predictors of atrial arrhythmias in patients with the Fontan palliation

5 + 3 Q&A  Bryce Alexander, BSc (Canada)
Coronary artery disease and interatrial block: implications for new-onset atrial fibrillation

5 + 3 Q&A  Erica Clarke Whalen, MBBS (Canada)
Gender equity imbalance in electrophysiology: A call to action

5 + 3 Q&A  Muammar Kabir, PhD presented by Erick Andres Perez Alday, PhD (USA)
Optimal configuration of adhesive ECG patches for long term vectorcardiogram monitoring

5 + 3 Q&A  Akitoshi Chikamoto, undergraduate student (Japan)
The characterization of autonomic nervous function in Senescence Accelerated Mouse-Prone 8 (SAMP8)

5 + 3 Q&A  Erick Andres Perez Alday, PhD (USA)
New method to digitize electrocardiograms printed in multiple formats

5 + 3 Q&A  Charlotte Stephansen, MD-PhD student (Denmark)
Interventricular delay in cardiac resynchronization therapy: Inter observer agreement when aiming for the narrowest paced QRS complex

5 + 3 Q&A  Harley Stevenson-Cocks, BSc (United Kingdom)
A novel model of rat ventricular electrophysiology reveals mechanisms of spontaneous Ca2+ release in heart failure

5 + 3 Q&A  Jaume Coll-Font, PhD (USA)
Tracking the heart movement with the ECG; Correcting the respiration movement of the heart in a porcine model

5 + 3 Q&A  Mehak Idrees, MD (USA)
Sex-Specific differences in QRS characteristics of LBBB in heart failure patients undergoing cardiac resynchronization therapy
Saturday June 24th, 2017, 10:30

Collaborative Life Sciences Building

Sudden cardiac death and ECG screening in athletes

Room: Rm. 1 - 3A003A

Chair(s): Jordan Prutkin, MD MHS (USA) and Chuck Swerdlow, MD (USA)

Length (minutes)

15  Eric Stecker, MD MPH
Oregon Health & Science University, United States of America
Epidemiology of sudden cardiac death in community and in athletes

15  Jordan Prutkin, MD MHS
University of Washington, United States of America
International criteria for electrocardiographic interpretation in athletes

15  Ronn Tanel, MD
University of San Francisco California, United States of America
Asymptomatic WPW in young athletes

15  Seshadri Balaji, MD
Oregon Health & Science University, United States of America
Risk stratification for sudden death in children and adolescents with HCM. What do we know? What do we need to know?

15  Chuck Swerdlow, MD
University of California Los Angeles, United States of America
ICD in athletes: how to achieve the best clinical outcomes and avoid complications

15  Panel Discussion
All questions saved for panel discussion for all speakers to address as a group
Saturday June 24th, 2017, 10:30

Collaborative Life Sciences Building

Rapid Fire Abstracts

Room: Rm. 2 - 3A003B

Chair(s): Larisa Tereshchenko, MD PhD (USA) and Peter MacFarlane, DSc FRCP (UK)

Length (minutes)

5 + 3 Q&A  
Aron Bender, MD (USA)  
Ventricular pre-excitation on ECG is independently associated with incident atrial fibrillation in a prospective community cohort study

5 + 3 Q&A  
Shulun Zang, MD (USA)  
Temporal dispersion of repolarization are associated with defibrillator therapies for ventricular arrhythmias

5 + 3 Q&A  
Audrey Uy-Evanado, MD (USA)  
Aggressive blood glycemic control among diabetics and risk of sudden cardiac death

5 + 3 Q&A  
Noelle Garster (presented by Charles Henrikson, MD MPH (USA))  
Bedside identification of patients at risk for PVC-induced cardiomyopathy: Is ECG useful?

5 + 3 Q&A  
Carmen Rusinaru, MD PhD (USA)  
A novel non-Invasive sex-specific risk marker for sudden cardiac death with preserved ejection fraction

5 + 3 Q&A  
Rolf Oberholzer (presented by Roger Abächerli, PhD (Switzerland))  
Reconstruction of the ECG from the VCG is posture dependent

5 + 3 Q&A  
Chetan Lokhande, MD (USA)  
“Ideally” placed left ventricular leads for CRT yield different paced EKG findings in patients with left bundle branch block: Anatomical vs electrical optimization

5 + 3 Q&A  
Petros Arsenos, MD PhD (Greece)  
Programmed ventricular stimulation predicts sudden cardiac death in heart failure patients with preserved ejection fraction

5 + 3 Q&A  
Petros Arsenos, MD PhD (Greece)  
Increased prevalence of late potentials on signal-averaged electrocardiogram in psychiatric patients
Saturday June 24th, 2017, 13:00

Collaborative Life Sciences Building

Clinical ECG Cases Review

Room: Rm. 2 - 3A003B

Chair(s): Zachary Goldberger, MD MS (USA)

Panel: Charles Henrikson MD MPH (USA), Eric Stecker MD MPH (USA), Chuck Swerdlow, MD (USA), Jordan Prutkin, Seshadri Balaji MD (USA), Samuel Sclarovsky, MD (Israel)

Length (minutes)
7 + 3 Q&A*       Tuan Mai, MD (USA)
                   Macoreentrant Atrial Flutter Circuits Involving Native and Donor Atria after Bilateral Lung Transplant
7 + 3 Q&A*       Angela Krebsbach PA-C, MS (USA)
                   Inappropriate Ventricular Pacing in an Newly Transplanted Heart with Normal AV Conduction
7 + 3 Q&A*       Sanoj Chacko (Canada)
                   CRT-AutoCapture Induced Ventricular Arrhythmia
7 + 3 Q&A*       Sanoj Chacko (Canada)
                   Wenckebach Periods of Alternate Beats: An Unusual Phenomenon
5
Buffer time

*subject to panel discretion
Saturday June 24th, 2017, 14:00

Collaborative Life Sciences Building

ECG monitoring and big data

Room: Rm. 1 - 3A003A

Chair(s): Iwona Cygankiewicz, MD PhD (Poland) and Jonathan Steinberg, MD (USA)

Length (minutes)

15  Iwona Cygankiewicz, MD PhD
Medical University of Łódź, Poland
Clinical indications for AEGC monitoring - ISHNE/HRS consensus

15  Suave Lobodzinski, PhD
University of California Los Angeles, United States of America

15  Emanuela Teresa Locati, MD PhD
Milano, Italy
Long-term ECG monitoring in unexplained syncope and palpitations: SYNARR-Flash study and beyond

15  Jonathan Steinberg, MD
Summit Medical Group, United States of America
The battle for long-term ECG monitoring supremacy: smartphone ECG versus implantable loop recorder

15  Ken Stein, MD
Boston Scientific, United States of America
Promises and pitfalls of big data

Panel Discussion
All questions saved for panel discussion for all speakers to address as a group
Saturday June 24th, 2017, 14:00

Collaborative Life Sciences Building

How to record ECG

Room: Rm. 2 - 3A003B

Chair(s): Barbara Drew, RN PhD (USA), and Paul Kligfield, MD (USA)

Length (minutes)

15  Paul Kligfield, MD  
    Weill Cornell Medical College, United States of America  
    Errors in ECG acquisition: precordial electrode placement and lead wire switches

15  Roger Abächerli, PhD  
    SCHILLER AG, Baar, & Cardiovascular Research Institute Basel, Switzerland  
    The estimated ECG angles derived by VCG significantly differ when electrode positions and body build are included into the vector calculation model

15  Nora Goldschlager, MD  
    University of California San Francisco, United States of America  
    Artifacts that affect interpretation of the ECG

15  Barbara Drew, RN PhD  
    University of California San Francisco, United States of America  
    Causes of false alarms with in-patient monitoring

15  Peter MacFarlane, DSc FRCP  
    University of Glasgow, United Kingdom  
    Assessment of Bandwidth for Pediatric ECGs

15  Panel Discussion  
    All questions saved for panel discussion for all speakers to address as a group
Saturday June 24th, 2017, 15:45

Collaborative Life Sciences Building

Welcome Remarks and ISHNE Keynote

Room: Combined

Length (minutes)
15

Welcome Remarks
Larisa Tereshchenko, MD PhD
Oregon Health & Science University, United States of America
Sanjiv Kaul, MD
Oregon Health & Science University, United States of America
Wojcieh Zareba, MD PhD
University of Rochester, United States of America
Jonathan Steinberg
Summit Medical Group, United States of America

55

ISHNE Keynote
Niraj Varma MD PhD
Cleveland Clinic, United States of America
Remote monitoring of Cardiac Implantable Electronic Devices: from Curiosity to Class 1 Recommendation
Saturday June 24th, 2017, 17:00

Collaborative Life Sciences Building

Mechanisms, ECG manifestation, and risk stratification

Room: Rm. 1 - 3A003A

Chair(s): Lin Yee Chen, MD MS (USA), and Przemyslaw Guzik, MD (Poland)

Length (minutes)

15 Ignatius G Zarraga, MD
Oregon Health & Science University, United States of America
Just how helpful is the ECG in the congenital long QT syndrome?

15 Takanori Ikeda, MD
University of Tokyo, Japan
Risk stratification using noninvasive techniques in Brugada syndrome

15 Mark Niebauer, MD PhD
Cleveland Clinic, United States of America
QRS frequency analysis in bundle branch block: clinical outcomes and CRT response

15 Marek Malik, MD
Imperial College London, United Kingdom
QRS microfractionations in ICD recipients

8 Al Benson BSc, PhD
University of Leeds, United Kingdom
hERG Channel Activators and Vulnerability to Re-entrant Arrhythmias: A Computational Study of the Roles of Potassium and Sodium Currents

8 Wilson Good, PhD Student
University of Utah, United States of America
Detecting Ischemic Stress Using Laplacian Eigenmaps

14 Panel Discussion
All questions saved for panel discussion for all speakers to address as a group
Saturday June 24th, 2017, 17:00

Collaborative Life Sciences Building

How to teach clinical ECG

Room: Rm. 2 - 3A003B

Chair(s): Adrian Baranchuk, MD (Canada) and Victor Froelicher, MD (USA)

Length (minutes)
15 Adrian Baranchuk, MD
Queen’s University, Canada
How and what to teach EP Fellows about Electrocardiology

45 Joshua Landy, MD
Co-Founder Figure 1, Canada
Online ECG Education: The experience of Figure 1

15 Zachary Goldberger, MD MS
University of Washington, United States of America
Roundtable discussion

15 Antonio Bayés de Luna, MD
Hospital Quirónsalud Barcelona, Spain
Roundtable discussion

6.30 pm Reception at CLSB for all
Sunday June 25th, 2017, 08:30

Collaborative Life Sciences Building

Interatrial Block and Bayés’ Syndrome: New paradigm in the prediction of AF, Stroke and Cognitive Impairment?

Room: Rm. 1 - 3A003A

Chair(s): Antonio Bayés de Luna, MD (Spain) and Adrian Baranchuk, MD (Canada)

Length (minutes)
15  
Antonio Bayés de Luna, MD  
Hospital Quirónsalud Barcelona, Spain  
Interatrial block: from the surface ECG to the Cardiac Magnetic Resonance

15  
Pyotr Platonov, MD  
Lund University, Sweden  
A comprehensive anatomical review of the Bachmann bundle and adjacent structures

15  
Larisa Tereshchenko, MD PhD  
Oregon Health & Science University, United States of America  
Interatrial block and Deep Terminal Negativity of P-wave in V1: Friend or foe?

15  
Lin Yee Chen, MD MS  
University of Minnesota, United States of America  
P wave indices and their predictive ability for stroke in AF

15  
Adrian Baranchuk, MD  
Queen’s University, Canada  
Interatrial block and atrial fibrillation- the Bayés Syndrome: Are we ready for “prime time?”

15  
Panel Discussion  
All questions saved for panel discussion for all speakers to address as a group
Sunday June 25th, 2017, 08:30

Collaborative Life Sciences Building

How to code ECG

Room: Rm. 2 - 3A003B

Chair(s): JP Couderc, PhD MBA (USA) and Roger Abächerli, PhD (Switzerland)

Length (minutes)

15  Kjell Nikus, MD PhD  
Tampere University Hospital, Finland  
Challenges with the definition of the Q wave, the J point and the T wave

15  Marek Malik, MD  
Imperial College London, United Kingdom  
T-peak: what does it mean and how to identify it?

15  JP Couderc, PhD MBA  
University of Rochester, United States of America  
Improving Reproducibility, Increasing Standards of ECG analyses, and sharing the data: THEW ECG Warehouse experience

15  Fabio Badilini, PhD  
AMPS-LLC, United States of America  
New techniques for long-preserving storage and analysis of digital ECGs

15  Roger Abächerli, PhD  
SCHILLER AG, Baar, & Cardiovascular Research Institute Basel, Switzerland  
ECG measurement changes due to the first-order high-pass filter

Panel Discussion  
All questions saved for panel discussion for all speakers to address as a group
Sunday June 25th, 2017, 10:15

Collaborative Life Sciences Building

Pierre Rijlant Lecture

Room: Combined

Length (minutes)
60

Victor Froelicher, MD
Stanford University, United States of America
Perspectives on the Future of Electrocardiography
Sunday June 25th, 2017, 11:15

Collaborative Life Sciences Building

ISHNE general assembly

Room: Combined

Length (minutes) 30

Jonathan Steinberg, MD
Summit Medical Group, United States of America
Sunday June 25th, 2017, 13:00

Collaborative Life Sciences Building

Debate: Early repolarization pattern – is it over hyped?

Referee: Victor Froelicher, MD (USA)

Room: Rm. 1 - 3A003A

Length (minutes) 45

Peter MacFarlane, DSc FRCP (pro)
University of Glasgow, United Kingdom

Vs.

Sami Viskin, MD (con)
Tel-Aviv Medical Center, Israel
Sunday June 25th, 2017, 13:00

Collaborative Life Sciences Building

Clinical ECG cases review panel

Room: Rm. 2 - 3A003B

Chair(s): Kjell Nikus

Panel: Branislav Milovanovic, MD PhD (Serbia), Takanori Ikeda, MD (Japan), Andrés Ricardo Pérez-Riera, MD PhD (Brazil), Pyotr Platonov, MD (Sweden), Yochai Birnbaum, MD (USA)

Length (minutes)
7 + 3 Q&A* Carlos Alberto Pastore, MD PhD (Brazil)
Brugada pattern with and without right bundle-branch block: how can VCG differentiate them

7 + 3 Q&A* Michał Kałowski, MD (Poland)
ECG paper with traces of soot – Abnormalities in the recording of the victim of carbon monoxide poisoning

7 + 3 Q&A* Michał Kałowski, MD (Poland)
Misdiagnosis of pacemaker dysfunction due to impaired intraatrial conduction caused by severe fibrosis of atria in patient with scleromyositis

7 + 3 Q&A* Paulina Przyżycka (presented by Michał Kałowski, MD (Poland))
Third time lucky – Don’t let the patient die for the fourth time

5 Buffer time

*subject to panel discretion
Sunday June 25th, 2017, 13:50

Collaborative Life Sciences Building

From genetics to genomics of ECG phenotypes to cardiac modeling

Room: Rm. 1 - 3A003A

Chair(s): Larisa Tereshchenko, MD PhD (USA) and Sami Viskin, MD (Israel)

Length (minutes)

20  Nona Sotoodehnia, MD
    University of Washington, United States of America
    Genomics of Cardiac Electrical Activity

20  Sami Viskin, MD
    Tel-Aviv Medical Center, Israel
    Proarrhythmic Effects of Cardiac Memory

20  Remi Dubois, PhD
    ESPCI, France
    Ventricular fibrillation: what we can learn from noninvasive mapping

20  Hector Barajas-Martinez, PhD
    Masonic Medical Research Laboratory, United States of America
    Genetics in Sudden Cardiac Death Syndromes

10  Panel Discussion
    All questions saved for panel discussion for all speakers to address as a group
Sunday June 25th, 2017, 13:50

Collaborative Life Sciences Building

Young Investigators Competition Finalists

Room: Rm. 2 - 3A003B

Chair(s): Peter MacFarlane, DSc FRCP (UK), Rob MacLeod, PhD (USA), Jonathan Steinberg, MD (USA), Wojciech Zareba, MD PhD (USA)

Length (minutes)
10 + 5 Q&A  Farhad Pashakhanloo, PhD (USA)
Influence of myofiber architecture on the anisotropic wave propagation and electrogram waveforms using image based computer models of human atria
10 + 5 Q&A  Golriz Sedaghat, BS (USA)
Continuous activation through the entire cardiac cycle discriminates reentrant vs. focal ventricular tachycardia on surface ECG
10 + 5 Q&A  Erick Andres Perez Alday, PhD (USA)
Novel non-invasive algorithm to identify atria reentry and ectopic foci origins from a multi system array. A computational study
10 + 5 Q&A  Kensuke Sakata, MD (Japan)
Not all non-paroxysmal atrial fibrillation drivers are included in complex fractionated electrogram area or low voltage area: ExTRA mapping project
10 + 5 Q&A  Joseph Allencherril, MD (USA)
Q waves in V1-V3 do not represent strict basal anteroseptal infarcts: late gadolinium enhancement cardiovascular magnetic resonance imaging correlations
10 + 5 Q&A  Jason Thomas, BS (USA)
Global electrical heterogeneity in young athletes
Sunday June 25th, 2017, 15:35

Collaborative Life Sciences Building

Innovative technologies in electrophysiology of the 21st century

Room: Rm. 1 - 3A003A

Chair(s): Sami Viskin, MD (Israel) and Larisa Tereshchenko, MD PhD (USA)

Length (minutes)
20 + 5 Q&A  Charles Swerdlow, MD
University of California Los Angeles, United States of America
Innovations in Clinical Electrophysiology

20 + 5 Q&A  Leslie Tung, PhD
Johns Hopkins, United States of America
Electrophysiology of Engineered Cardiac Tissues Using Human Induced Pluripotent Stem Cells
Suave Lobodzinski, PhD  
University of California Los Angeles, United States of America  
History of a God’s signal discoveries

Yochai Birnbaum, MD  
Baylor College of Medicine, United States of America  
Prediction of right atrial volume index by electrocardiography: ECG-echocardiography correlations in patients with pulmonary hypertension
Sunday June 25th, 2017, 16:35

Collaborative Life Sciences Building

Ventricular conduction abnormalities and left ventricular dyssynchrony

Room: Rm. 1 - 3A003A

Chair(s): Van Oosterom, PhD (Netherlands) and Sami Viskin, MD (Israel)

Length (minutes)
15  Andrés Ricardo Pérez-Riera, MD PhD
    ABC School of Medicine, Brazil
    Left Septal Fascicular Block: facts and controversies
15  Ljuba Bacharova, MD, DSc, MBA
    International Laser Centre, Slovakia
    Intraventricular conduction abnormalities - a link between arrhythmias and QRS complex patterns
15  Van Oosterom, PhD
    Radboud University Nijmegen, The Netherlands
    How simulation of RBBB and LBBB is implemented in ECGSIM
15  Laura Bear, PhD
    The Electrophysiology and Heart Modeling Institute (LIRYC), France
    Detection of Electrical Dyssynchrony by Electrocardiographic Imaging
7   Junaid Zaman, MD PhD presented by (Chuck Swerdlow, MD, UCLA)
    Imperial College London, United Kingdom and Stanford University, USA
    Electrical Characteristics of Defibrillation Lead Dislodgement to the Atrium
7   Erick Andres Perez Alday, PhD
    Oregon Health & Science University, United States of America
    Anisotropy of ventricular conduction is more prominent during ventricular tachycardia, as compared to sinus rhythm
15  Panel Discussion
    All questions saved for panel discussion for all speakers to address as a group
Sunday June 25th, 2017, 16:35

Collaborative Life Sciences Building

ECG imaging of arrhythmias and ischemia

Room: Rm. 2 - 3A003B

Chair(s): Rob MacLeod, PhD (USA) and Dana Brooks, PhD (USA)

Length (minutes)

15  Dana Brooks, PhD  
    Northeastern University, United States of America  
    Technical challenges to wider clinical adoption of ECGI

15  Michał Kania, PhD  
    The Electrophysiology and Heart Modeling Institute (LIRYC), France  
    Evaluation of a new method for three-dimensional prediction of the exit site of ventricular tachycardia

15  Peter van Dam, PhD  
    Peacs BC, Netherlands  
    The path of the mean spatio-temporal activation isochrone derived from the 12 Lead-ECG to localize the PVC origin

15  Milan Tyšler, PhD  
    Slovak Academy of Sciences, Slovakia  
    Evaluation of using reduced number of mapping leads for noninvasive localization of ectopic ventricular activity

15  Brett Burton, PhD student  
    University of Utah, United States of America  
    The effect of subject-specific ischemic zone geometries on body surface potentials

15  Panel Discussion  
    All questions saved for panel discussion for all speakers to address as a group
Monday June 26th, 2017, 08:30

Portland Art Museum

Autonomic nervous system and arrhythmogenesis

Room: Rm. 1 - Kridel Grand Ballroom

Chair(s): Leslie Tung, PhD (USA) and Peng-Sheng Chen, MD (USA)

Length (minutes)

15 Beth Habecker, PhD
Oregon Health & Science University, United States of America
Cardiac Autonomic Nervous System fundamentals

15 Peng-Sheng Chen, MD
University of Indiana, United States of America
Recording of skin sympathetic nerve activity on ECG

15 Marek Malik, MD
Imperial College London, United Kingdom
Heart rate variability - what does it mean and what we measure?

15 Georg Schmidt, MD
Technische Universität München, Germany
Baroreflex sensitivity assessment using heart rate turbulence

15 Larisa Tereshchenko, MD PhD
Oregon Health & Science University, United States of America
Can ECG assess sympathetic nerves density in the ventricles?

15 Panel Discussion
All questions saved for panel discussion for all speakers to address as a group
Monday June 26th, 2017, 08:30

Portland Art Museum

Acute ischemia, myocardial injury, and an old scar

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Samuel Sclarovsky, MD (Israel) and Miquel Fiol, MD (Spain)

Length (minutes)

15  **Miquel Fiol, MD**
Hospital Universitario Virgen del Rocío, Spain
Where is the culprit artery in patients with ACS

15  **Petros Arsenos, MD PhD**
Hippokration Hospital, Greece
Primary prevention of sudden cardiac death in post-myocardial infarction Patients with preserved ejection fraction: PRESERVE-EF Study

15  **Cees A. Swenne, PhD**
Università Polytecnica delle Marche, Italy
Subtraction electrocardiography to improve myocardial ischemia detection

15  **Rob Macleod, PhD**
University of Utah, United States of America
Myocardial ischemia and its ECG Signature: 100 years of Forgery?

15  **Ian Azarov, MD**
Institute of Physiology/Komi Science Center, Russia
Activation Delay in midmyocardium under experimental coronary occlusion in pigs is associated with j-wave development on body surface ECG

15  **Panel Discussion**
All questions saved for panel discussion for all speakers to address as a group
Monday June 26th, 2017, 11:00

Portland Art Museum

Mark Josephson lecture

Room: Rm. 1 - Kridel Grand Ballroom

Length (minutes)
55

Kalyanam Shivkumar, MD
University of California Los Angeles, United States of America
Autonomic nervous system and ventricular arrhythmias: mechanisms and therapeutic opportunities
Monday June 26th, 2017, 11:55

Portland Art Museum

ISE General Assembly

Room: Rm. 1 - Kridel Grand Ballroom

Length (minutes) 30

Wojciech Zareba, MD PhD
University of Rochester, United States of America
Monday June 26th, 2017, 13:30

Portland Art Museum

Debate: ECG should be used for SCD risk stratification

Room: Rm. 1 - Kridel Grand Ballroom

Referee(s): Peng-Sheng Chen, MD (USA)

Length (minutes) 45

Larisa Tereshchenko, MD PhD (pro)
Oregon Health & Science University, United States of America
It is all about the electrical signature of the arrhythmia

Vs.

Jeffrey Goldberger, MD MBA (con)
University of Miami, United States of America
Imaging is paramount. We don’t need an ECG
Monday June 26th, 2017, 13:30

Portland Art Museum

Clinical ECG cases review: roundtable discussion

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Adrian Baranchuk, MD (Canada)

Panel: Antonio Bayés de Luna, MD (Spain), Victor Froelicher, MD (USA), Carlos Pastore, Branislav Milovanovic, MD PhD (Serbia)

Length (minutes)
7 + 3 Q&A* Nelson Samesima, MD PhD (Brazil)
Brugada syndrome ablation: What the Vectorcardiogram can tell us?
7 + 3 Q&A* Brooks Walsh, MD (USA)
Giant R Waves in Hyperacute Myocardial Infarction: Hyperkalemia Mimic?
7 + 3 Q&A* Brooks Walsh MD (USA)
Hyperventilation-Provoked STE and TWI in a Young Afro-Caribbean Adult Woman
7 + 3 Q&A* Brooks Walsh MD (USA)
Subacute Occlusion of the Proximal RCA Producing Anterior Q waves and T Wave Inversion

5 Buffer time

*subject to panel discretion
Monday June 26th, 2017, 14:25

Portland Art Museum

Atrial Fibrillation Symposium

Room: Rm. 1 - Kridel Grand Ballroom

Chair(s): Wojciech Zareba, MD PhD (USA), Jeffrey Goldberger, MD MBA (USA)

Length (minutes)
18  **Jeffrey Goldberger, MD MBA**  
University of Miami, United States of America  
Atrial Myopathy Underlying Atrial Fibrillation: Arrhythmogenic and Thrombogenic Substrate
18  **Maria Guillem, PhD**  
Universitat Politècnica de València, Spain  
Noninvasive estimation of hierarchical activation patterns during atrial fibrillation by Electrocardiographic Imaging
18  **Takanori Ikeda, MD**  
Toho University, Japan  
Antithrombotic treatment for prevention of stroke due to atrial fibrillation: Real-world evidence
18  **Wojciech Zareba, MD PhD**  
University of Rochester, United States of America  
Effect of Ranolazine on Atrial and Ventricular Arrhythmias
18  **Panel Discussion**  
All questions saved for panel discussion for all speakers to address as a group
Monday June 26th, 2017, 14:25

Portland Art Museum

Traditional and Novel ECG analyses

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Merritt Raitt, Rob Macleod, PhD (USA)

Length (minutes)

15 Merritt Raitt, MD
Oregon Health & Science University, United States of America
Differential diagnosis of supraventricular arrhythmias on 12-lead ECG

15 Heemun Kwok, MD MS
University of Washington, United States of America
Method for Rhythm Classification during CPR

15 Marcio Sturmer, MD
University of Montreal, Canada
New Criteria Using Initial Activation in V1 and V2 for the Differential Diagnosis of Wide Complex Tachycardia

15 Michael A Colman, PhD
University of Leeds, United Kingdom
Multi-scale Computational Modeling of Spontaneous Calcium Release Events in the Human Atria

15 Takashi Ashihara, MD PhD
Shiga University of Medical Science, Japan
ExTRA Mapping-Guided Non-Passively Activated Area Ablation is very Effective for Patients with Non-Paroxysmal Atrial Fibrillation

8 Jess Tate, PhD student
University of Utah, United States of America
A Sampling Strategy for Reducing Error in ECG Forward Simulation

7 Panel Discussion
All questions saved for panel discussion for all speakers to address as a group
**Tuesday June 27th, 2017, 08:30**

**Portland Art Museum**

**Cardiomyopathies**

Room: Rm. 1 - Kridel Grand Ballroom

Chair(s): Zachary Goldberger, MD MS (USA), Mark Haigney, MD (USA)

<table>
<thead>
<tr>
<th>Length (minutes)</th>
<th>Name</th>
<th>Institution</th>
<th>Topic</th>
</tr>
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<tbody>
<tr>
<td>15</td>
<td><strong>Mark Haigney, MD</strong></td>
<td>Uniformed Services University, United States of America</td>
<td>Opioid-induced Sudden Death: Diagnostic and prognostic value of ECG and ECG monitoring</td>
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<tr>
<td>15</td>
<td><strong>Frank I. Marcus, MD</strong></td>
<td>University of Arizona, United States of America</td>
<td>Arrhythmogenic right ventricular dysplasia/cardiomyopathy (ARVD/C): ECG diagnostic and prognostic criteria</td>
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<tr>
<td>15</td>
<td><strong>John Madias, MD</strong></td>
<td>Mount Sinai Medical Center, United States of America</td>
<td>Can ECG help to diagnose Takotsubo (stress) cardiomyopathy?</td>
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<tr>
<td>15</td>
<td><strong>Antoni Ribeiro, MD PhD</strong></td>
<td>Federal University of Minas Gerais Belo Horizonte, Brazil</td>
<td>ECG in Chagas disease: diagnostic and prognostic criteria</td>
</tr>
<tr>
<td>15</td>
<td><strong>Petros Arsenos, MD PhD</strong></td>
<td>Hippokration Hospital, Greece</td>
<td>Primary prevention of sudden cardiac death in hypertrophic cardiomyopathy: prospective cohort study</td>
</tr>
</tbody>
</table>

**Panel Discussion**

All questions saved for panel discussion for all speakers to address as a group
Tuesday June 27th, 2017, 08:30

Portland Art Museum

Many faces of cardiac repolarization

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Christine Tompkins, MD (USA), Rob MacLeod, PhD (USA)

Length (minutes)
15  Christine Tompkins, MD
University of Colorado Denver, United States of America
Gender differences in ventricular repolarization properties: going beyond the QT interval

15  Petros Arsenos, MD PhD
Hippokration Hospital, Greece
Non-invasive risk stratification of sudden cardiac death in heart failure: comparison of QT interval, T-wave alternans, and deceleration capacity

15  Ramun Schmid (presented by Roger Abächerli, PhD)
SCHILLER AG, Baar, Switzerland
ST segment correction formula for AC-coupled Electrocardiogram

15  Ksenia Sedova, PhD
Czech Technical University in Prague, Czech Republic
Repolarization Parameters for Predicting Ventricular Tachyarrhythmias in Ischemia/Reperfusion Model

15  Michele Pelter, PhD
University of San Francisco, United States of America
Evaluation of algorithms designed to detect transient myocardial ischemia in patients with acute coronary syndrome

15  Panel Discussion
All questions saved for panel discussion for all speakers to address as a group
Portland Art Museum

Tuesday June 27th, 2017, 10:30

Ion channels and channelopathies

Room: Rm. 1 - Kridel Grand Ballroom

Chair(s): Leslie Tung, PhD (USA), Peter Ruben, PhD (Canada)

Length (minutes)

15  Zachary Goldberger, MD MS
    University of Washington, United States of America
    Channelopathy surfing in 2017: Considerations for the clinician

15  Wojciech Zareba, MD PhD
    University of Rochester, United States of America
    Long QT syndrome: diagnosis, prognosis, and treatment

15  Peter Ruben, PhD
    Simon Fraser University, Canada
    Arrhythmogenic triggers in a LQT3/Brugada mixed syndrome sodium channel mutant, E1784K

15  Peter Larsson, PhD
    University of Miami, United States of America
    Modified polyunsaturated fatty acids as a Long QT Syndrome therapeutics

15  Hector Barajas-Martinez
    Masonic Medical Research Laboratory, United States of America
    Molecular genomics update in short QT syndrome

15  Panel Discussion
    All questions saved for panel discussion for all speakers to address as a group
Tuesday June 27th, 2017, 10:30

Portland Art Museum

Atrial Fibrillation mechanisms and ECG monitoring

Room: Rm. 2 - Fields Sunken Ballroom

Chair(s): Dawood Darbar, MBChB, MD (USA), Marmar Vaseghi, MD (USA)

Length (minutes)
15 Jonathan Steinberg, MD
Summit Medical Group, United States of America
Duration of detected AF and outcomes: does it matter?
15 Larisa Tereshchenko, MD PhD
Oregon Health & Science University, United States of America
Network meta-analysis of anti-embolic interventions
15 Dawood Darbar, MBChB, MD
University of Illinois College of Medicine, United States of America
Genomics of atrial fibrillation
15 Marmar Vaseghi, MD
University of California Los Angeles, United States of America
Cardiac autonomic control and its modulation for prevention and treatment of atrial fibrillation
15 Panel Discussion
All questions saved for panel discussion for all speakers to address as a group
Tuesday June 27th, 2017, 12:00

Portland Art Museum

Closing remarks and awards ceremony

Room: Rm. 1 - Kridel Grand Ballroom

Length (minutes)
30

Jonathan Steinberg, MD
Summit Medical Group, United States of America

Wojciech Zareba, MD PhD
University of Rochester, United States of America

Rob Macleod, PhD
University of Utah, United States of America