

ICE-2019-PRELIMINARY PROGRAM

Plenary Lecture

The detection and relevance of AF- Harold Kennedy

- ECG University (announce HRS+ISE+ISHNE paper)
- ISE Young Community: Chair: Goksel Cinier (Turkey)
- ISHNE abstracts.

-Rijlant Lecture

Industry Sponsored Sessions

Sponsored Session Medtronic

Detect AF- and reduce with algorithms
Prophylaxis of CIED pocket infection
ILR and Reduce Stroke

AF and Implantable Devices

YongMei Cha (Mayo)
Johnston, Samuel L <samuel-johnston@uiowa.edu>
Passman, Rod. <Rod.Passman@nm.org>

Sponsored Session- Abbott intervene?

The paced QRS- does it predict NRs?
MPP to improve LV activation
Dynamic Pacing to Improve CRT Response
Atrial fibrillation and CRT

CRT fails in a third of my patients- accept or

Marek Jasztrzebski
Haran Burri
Brian Wisnoskey
Jonathan Steinberg

Sponsored Session- Biotronik

Telerehabilitation

Will the smartphone become the standard relay for data from implantable cardiac devices?

Suneet Mittal

Are CIED patients better off remotely monitored than seeing their Drs regularly in clinic?

Niraj Varma

Sponsored Session- Boston Scientific

The SQ ICD

Valentina Kutyla

QRS morphology and duration- or the left atrium- to predict CRT effect

Cryoablation for AF- is this the new standard? Pyotr Platanov
Ante Anic
Remote Monitoring and Automated machine learning improves survival in HF patients
Niraj Varma
Antithrombotic Therapy for Prevention of Stroke Due to AF: Real-World Evidence of Low Doses
Takanori Ikeda

Session Proposals

1. What's new in electrocardiology in 2019 and how does this affect ECG diagnosis? – New guidelines, new literature

Surface ECG- Antonio Bayes de Luna/
Ambulatory ECG monitoring- Iwona Cygankiewicz
Implantable devices- Bulent Gorenek
Ablation procedures- Goksel Cinier

2. Standardization of Ambulatory Monitoring: What Should we Do?

How many leads/ and how long for Lobodinski
Artefacts and mis diagnoses; do interpolated leads work? Javier Garcia Niebla
What can we learn apart from heart rate and its regularity Richard Verrier
Non prescribed wearables- consumer or patient? JP Couderc

3. The Discovery of AV conduction abnormalities- what should management be?

Prolonged PR interval Emanuela Locati
RBBB Andres Ricardo Perez-Riera
LBBB Marcelo Elizari
Post- TAVR Paul Malik

4. ECG diagnostic dilemmas

Artifacts in AECG monitoring Miguel Fiol
RsR' in V1 lead Antonio Bayes de Luna
Brugada phenocopy Adrian Baranchuk
Drug-induced ECG changes Tom Ribeiro

5. The His bundle and its Arborizations

Chairs: Andrés Ricardo Pérez-Riera and Ryszard Piotrowicz

His bundle pacing Jon Steinberg

Trifascicular or tetrafascicular nature of the left bundle branch - anatomy and LV depolarization

Andres Perez-Riera

The left septal fascicle – clinical implications Ryszard Piotrowicz

SVTs using the proximal HPS Sam Johnston

6. ECG changes and arrhythmias in Non Ischemic cardiomyopathies

Takotsubo cardiomyopathy- Peter Stone/ Mark Haigney/Takanori

ECG changes and arrhythmias in hypothermia – Piotr Kukla (Poland)

Philippides cardiomyopathy (athletes) Iwona Cygankiewicz

Lamin AC- Krzysztof Kaczmarek

7. Tachycardiomyopathy

AF

Kjell Nikus

PACs and PVCs- origin and burden

Andres Enriquez

RV pacing

Carlos Pastore

Do tachycardia induced CM differ to other NICM?

Philippe Chevalier

8. QRS as a Key Selection Criterion for CRT

QRS duration or morphology: what really matters for CRT selection?

J Sahadevan

Which definition of LBBB should I apply?

L Bacharova

Should QRS Duration be Recalibrated to Body Size in Selecting Patients for CRT?: Niraj Varma

Do we need Machine Learning to select the right patient for CRT?

Mina Chung

9. Optimization of Cardiac Resynchronization Therapy by

- The 12-lead surface Electrocardiogram Mark Potse
- The Echocardiographic evaluation Malgorzata Sobieszczanska
- Holter W Zareba
- The automatic algorithms provided by the devices Yochai Birnbaum

10. Brugada Syndrome

ECG diagnosis- and differential diagnosis Gary Tse

Risk Stratification Using Non-Invasive ECG Techniques in Brugada Syndrome Konstantino Letsas

Brugada phenocopy Adrian Baranchuk

An ion channel disease or anatomical pathology? Sam Johnston

11. Repolarization and QT syndrome

How do you measure it? supine/ standing and exercise Pieter Postema

Long QT Wojtek Zareba

Short QT Ihor Gussak

Early repolarization Peter MacFarlane

12 New Insights into AF Mechanisms

Can P Wave Wavelet Analysis Predict Atrial Fibrillation

V Vassilikos <vvas63@otenet.gr>

Epicardial contact Mapping

JJayakumar Sahadevan

<jxs47@case.edu>

Epicardial non-contact mapping

Cakulev

Sam Johnston: Probiotics, Antibiotics, and the Incidence of Atrial Fibrillation

13 Diagnosis and management of Ventricular Tachycardia

ECG markers and methods of monitoring Andres Enriquez

New systems of body surface mapping: the role of CardioInsight

Role of MRI R Macleod

Noninvasive ablation with radiotherapy Mina Chung

14 Heart rate control

Prognostic role of heart rate in cardiovascular diseases – Iwona Cygankiewicz

Inappropriate sinus tachycardia- Pawel Ptaszynski (Poland)

Heart rate control in AFB patients- Pyotr Platonov/ Ali Oto/ Thomas Klingenhoben

Optimal programming of heart rate settings in patients with implantable devices-

Brian Olshansky

15 Diagnosis and Management of Unexplained Syncope

How to choose the best ECG monitoring strategy? Nelson Samesina
What ECG markers are available for identifying cardiogenic syncope? Sam Johnston
Syncope in athletes: what is the best diagnostic pathway? Drezner
Autonomic disorders and syncope Brian Olshansky <brian-olshansky@uiowa.edu>

16 ECG Predictors of Cardiovascular Outcomes: New Insights

Chair Lin Yee Chen

Prediction of Sudden Cardiac Death using an Electrical Risk Score

Sumeet Chugh (Sumeet.Chugh@cshs.org)

P Wave Indices: Improving Stroke Prediction in Atrial Fibrillation

Lin Yee Chen (chenx484@umn.edu)

Advanced Interatrial Block as a Risk Factor for Atrial Fibrillation and Stroke

Antoni Bayes de Luna (abayes@santpau.cat)

Supraventricular Ectopy: Is it a Risk Factor or Risk Marker for Stroke?

Elsayed Soliman (esoliman@wakehealth.edu)

17 Sudden cardiac death prevention

1. Sudden cardiac death- changing epidemiology and “patients at risk” profile – Iwona CYgankiewicz
2. Beyond implantable devices- is there a place for pharmacotherapy and life style changes in SCD prevention- (recreational sport, diet) Harold Kennedy? Ali Oto, Ryszard piotrowicz
3. ICD implantation in borderline patients (LVEF 30-35%)-and Recovered LVEF at the time of reimplantation Thomas Kligenheben
4. ICD alternatives- subcutaneous ICD, Life Vest- Jerzy Krzysztof Wranicz

18 Risk prediction for Sudden Cardiac Death in

- Non-ischemic cardiomyopathy patients George Kozzman
- Post-infarction patients with preserved ejection fraction W Zareba
- Patients with a recent (< 45 days) myocardial infarction Jose Manuel Rubio
- Patients with Brugada Syndrome Konstantino Letsas

19 Sleep Disordered Breathing and Atrial Fibrillation: Mechanistic and Clinical Insights

Chairs- Reena Mehra, Cleveland Clinic; Thomas Klingenheben

1. Sleep Apnea and Atrial Fibrillation-Omics (Genomics and Proteomics): Finding Common Ground *Reena Mehra*
2. Clarifying the Role of the Autonomic Nervous System in Sleep Apnea and Atrial Arrhythmogenesis Olshansky, Brian <brian-olshansky@uiowa.edu>
3. Novel Questionnaire-Based and Wearable Device Monitoring Approaches for the Identification of Sleep Apnea and Atrial Fibrillation Thomas Klingenheben
4. Key Considerations of Sleep Disordered Breathing Treatment in Atrial Fibrillation Adrian Baranchuk

20 Lifestyle/environment as modulators of arrhythmias?

Obesity and Exercise
Sleep
Alcohol
Stress and pollution

Mina Chung
M Kurpesa
Adrian Baranchuk
Valentina Kutyfa

21 Should ECG interpretation for interventional therapy account for patient gender?

Sinus rates, IAST and POTS
The ST segment and acute coronary syndromes
Repolarization, QT and torsade –implications for drug tx
QRS duration/ LBBB and CRT

Paweł Ptaszynski
Paul Malik
W Zareba
Yong Mei Cha
(ycha@mayo.edu)

22 Sports cardiology

Sudden cardiac death in athletes- what's new ? (2019 update) Iwona Cygankiewicz
ECG preparticipation screening- debate continues (USA vs Europe) Mark Haigney
Cardiac arrhythmias in athletes / AFib in athletes – TBD- Vinzenz Hombach/ Philippe Chevalier
CAD in athletes – how to manage Brian Olshansky

23 ECG diagnosis in-utero: fetal magnetocardiography

Bettina Cuneo Colorado, Ron Wakai PhD from Madison WI USA, Janette Strasburger MD from Milwaukee WI USA, and Hitoshi Horigome MD from Japan.

Technology

AV block Annette Wacker-Gussmann MD from Germany

Long QT syndrome

Sudden unexplained death in the fetus Parvin Dorokstar/Georgia Brugada Serequell

24 Self Monitoring and PRN treatment for paroxysmal arrhythmias

Patient self monitoring- How and how accurate

Suneet Mittal

PO NOAC for AF

Rod Passman

Intratracheal flecainide AF

Richard Verrier

Etipamil Nasal Spray for SVT

Bruce Stambler

25 Wearable Monitoring

1. Available technologies; how do they work and how accurate are they Rod Passman
2. Clinical uses of digital health in cardiology
3. Telemedicine for ACS Najeeb Osman
4. Cybersecurity Couderc

26 How to handle Asymptomatic AF detected on Monitoring

By my watch

P. Guzik

By my ILR

Rod Passman

By my pacemaker

Bulent Gorenek

By my CRT

Sergio Dubner

27 Open Questions for AF Screening and Anticoagulation Therapy

What methods of ECG monitoring should be utilized: implantable vs. external devices? P Guzik

How long should ECG monitoring last for PAF screening? E Locati

What duration of PAF episodes should be considered significant (30 sec? 6 min? 1 hr? 6hrs? 24 hrs?...) in order to start NAO/TAO? Mina Chung

Does prior clinical history (eg post cardiac surgery, cryptogenic stroke,...) affect interpretation? Iwona

28 Autonomic nervous system as a therapeutic target in cardiology

1. Methods to assess autonomic nervous system – Branislav Milovanovic (Serbia)
2. Neuroablation in syncope - Krzysztof Kaczmarek (Poland)
3. Invasive strategies to modulate ANS in heart failure (vagal nerve stimulation, BRS stimulation, CCM) TBD
4. Impact of exercise on ANS- Ewa Piotrowicz (Poland)

29 Autonomic tone alterations in patients with

DILAVERIS proposal

- Heart failure with reduced ejection fraction
- Heart failure with preserved ejection fraction
- Diabetes mellitus
- Neurological disorders, including neurogenic orthostatic hypotension
 - Brian Olshansky brian-olshansky@uiowa.edu

30 Heart Rate: physiology, properties, tools for assessment and clinical usefulness.

- Physiology of Heart Rate. Intrinsic rhythm and external regulation from Autonomic Nervous System. Pawel Ptaszynski /Richard Verrier
- Heart Rate in the healthy. Alterations during disease and during drug treatments. Tom Ribeiro brian-olshansky@uiowa.edu
- ECG tools for assessment of Heart rate properties. Revealing the concealed information. (HR, Circadian HR, HRV, HRT, DC, CVHR, Stress ECG) Przemyslaw Guzik
- Factors affecting Heart Rate. Meaning and usefulness of Resting Heart Rate & Minimum - Mean - Maximum Heart Rate. Iwona C

31 CIEDs

ECG interpretation

Birnbaum

SCAf Milan Tysler

SQ ICD and ECG qualification

Valentina Kutyla

Remote Monitoring

NV

Ivan Cakulev:Lectures

1.Non-invasive electrocardiographic mapping in various arrhythmias

Ivan Cakulev(USA)

2. 3.History of cardioversion and defibrillation.

Ivan Cakulev,(USA)

Session 32.ECG Imaging Session

Chairs: Suave Lobodzinski(USA), Rob McLeod(USA)

1. State of the art in ECG Imaging – trends and future directions.

Rob McLeod, (Salt Lake City, USA)

2. Anatomical localization of pacing sites in CRT patients.

Danila Potyagaylo, EP Solutions, Yverdon-les-Bains, (Switzerland)

3. Improving the diagnostic value of the ECG: 3D anatomical view.

Peter van Damm,(UCLA, Los Angeles, California,USA)

4. Towards practical ECG Imaging– Standardization of the anatomical models.

Suave Lobodzinski , (UCLA, Los Angeles, California,USA)

Session 33.Telemedicine in cardiology

Chairs: Ewa Piotrowicz,(Poland),Branislav Milovanovic,(Serbia)

1.Telerehabilitation in heart failure patients - TELEREH-HF – Multicenter controlled Trial.

Ewa Piotrowicz,(Warsaw, Poland)

2.Insights from TIMI-HF 2 Trial.

Friedrich Kohler(Berlin,Germany)

3.New mobile technologies for arrhythmia detection.

Philipp Kopylov, (Moscow, Russia)

4.Hemodynamic telemonitoring in heart failure - AMULET project

Pawel Krześciński, (Warsaw,Poland)

5.Crowdsensing Heart Care Platform: ECG for Everybody,

Stevan Jokic (Novi Sad,Serbia)

Session 34.Sudden cardiac death:risk stratification

Chairs:**Branislav Milovanovic**(Belgrade,Serbia),**Thomas Klingenheben** (Bonn,Germany)

1.New challenges in SCD risk stratification

Thomas Klingenheben,Bonn,Germany

2. Machine learning techniques:new approach in risk stratification

(**Branislav Milovanovic**(Belgrade,Serbia)

3. Syncope and Sudden Cardiac Death

Dmitry Duplyakov (Russia)

4. Predictors of sudden cardiac death

Galal Elkilany,(Dubai,UAE)

5. Emotional stress and sudden cardiac death

Sanja Pavlovic,(Belgrade,Serbia)

6. Role of Noninvasive Imaging for predictions of sudden cardiac death

Krassimira Hristova,(Sofia,Bulgaria)

Session 35.Syncope

Chairs:**Branislav Milovanovic**,(Belgrade,Serbia), **Dmitry Duplyakov**(Samara,Russia),

Cristian Podoleanu (Targu Mures,Romania)

1.Autonomic tests in the evaluation of Syncope – what stands in clinical practice?

Thomas Klingenheben,(Bonn,Germany)

2.Chronic fatigue syndrome and syncope:new approach in pathophysiology and therapy

Branislav Milovanovic(Belgrade,Serbia)

3. Risk stratification in patients with syncope

Dmitry Duplyakov(Samara,Russia)

4. Syncope, epilepsy or both

Nikola Vojvodic(Belgrade,Serbia)

5.New therapeutic options for the reflex syncope

Cristian Podoleanu (Targu Mures,Romania)

SESSIONS-NEUROCARD

Session 36.Basic science

Chairs: Nina Japundzic(Belgrade,Serbia), Dragan Djuric(Serbia), Bassim I Mohammad,(Iraq)

1.Beta adrenergic gene expression and cardiovascular variability in a rat model of doxorubicin induced cardiomyopathy

Nina Japundzic(Belgrade,Serbia)

2.Homocysteine and cardiac NMDA receptors:how it should affect cardiodynamic variables and oxidative stress,

Dragan Djuric(Serbia)

3. A Comparative Study to illustrate the Effects of Beta-1 Adrenergic Receptor Allelic Polymorphism on Disease Outcome in Iraqi Patients with Acute Coronary Syndrome (on Metoprolol Therapy).

Bassim I Mohammad,(Iraq)

Session 37.Artificial intelligence and biosignal processing

Chairs :Dragana Bajic(Belgrade,Serbia),Goran Krstacic(Zagreb,Croatia)

1.Chaos - State of the (he)art.

Goran Krstacic,(Zagreb,Croatia)

2.Artificial intelligence, features and dependency structures in patients with Lyme diseases.

Dragana Bajic (Serbia)

3.Comparative analysis of machine learning techniques in cardiology

Sladjana Jovanovic,(Belgrade,Serbia)

4.Artificial intelligence:clinical approach in different diseases

Branislav Milovanovic,(Belgrade,Serbia)

Session 38. ECG and electrocardiology

Chairs: Małgorzata Kurpesa,(Lodz,Poland), Jerzy K. Wranicz,(Lodz,Poland),

1. When an ECG is sufficient, when the CRT memory, and when should we perform Holter monitoring in patients with implanted devices?

Jerzy K. Wranicz,(Lodz,Poland)

2. Exercise Testing with the Combyn™ 12- channel ECG: Assessment of Myocardial Wall Tension and Aerobic Thresholds by Arterial Impedance Plethysmography

Falko Skrabal,(Graz, Austria)

3. Risk stratification in Brugada Syndrome

Małgorzata Kurpesa,(Lodz,Poland)

4. Approaches to assessment of the QT interval by Holter monitoring

Leonid Makarov (Moscow,Russia)

5. Heart rate variability disorders in young patient with ROHHAD syndrome

Larysa Balykova,(Saransk Russia)

Session 39. Athletes and sudden death risk

Chairs: Leonid Makarov (Moscow,Russia), Larysa Balykova (Saransk,Russia)

1. Syncope in athletes: when to worry?

Leonid Makarov(Moscow,Russia)

2. Arterial hypertension in young athletes.

Larisa Balykova(Saransk,Russia)

3. The changes of QT interval in standing position - new marker of LQ

Vera Komoliatova (Moscow,Russia)

Session 40. New advances in cardiological techniques

Chairs: Falko Skrabal (Graz, Austria), Fabiola Sozzi (Milan, Italy),

1. Live Demo of the Combyn™ 12- Channel ECG: Detecting Heart Failure, Overhydration, Edema, Sarcopenia and Peripheral Arterial Occlusive Disease during the Routine ECG

Falko Skrabal, (Graz, Austria)

2. Cardiac amyloidosis: diagnosis with echocardiography and MRI.

Fabiola Sozzi, (Milan, Italy)

3. Cardiomagnetic resonance – are we closer to the revealing the relationship of the microcirculation and HFpEF ?

Marija Zdravković, (Belgrade, Serbia)

Session 41. Hypertension and metabolic syndrome

Chairs: Reuven Zimlichman (Tel Aviv, Israel), Miodrag Ostojic (Belgrade, Serbia)

1. Blood pressure, Arterial aging and Arteriosclerosis

Reuven Zimlichman, (Tel Aviv, Israel)

2. Hypertension or Metabolic Syndrome as predictor of survival in Serbian Cohort of the Seven countries study

Miodrag Ostojic, (Serbia, Belgrade)

3. Myocardial perfusion imaging in high risk hypertensive population

Galal Elkilany, (Dubai, UAE)

4. Arterial hypertension and atrial fibrillation - the most important risk factors for stroke in clinical practice

Ludovit Gaspar, (Bratislava, Slovak Republic)

Session 42.Chronic inflammation and cardiovascular diseases

Chairs:Richard Cervera (Spain),Ljudmila Stojanovic (Serbia)

1.Neurologic and Cardiovascular Antiphospholipid Syndrome (APS) Events: Lessons from the “Euro-Phospholipid Project”.

Ricard Cervera, (Barselona,Spain)

2.Correlations between Systemic Cardiovascular APS manifestations: Lesions from the Serbian National Registry.

Ljudmila Stojanovich,(Belgrade,Serbia)

3.Prevalence and Association of Accelerated Atherosclerosis and Cardiovascular Involvement in APS: a prospective long-term follow-up study. Djokovic Aleksandra(Belgrade,Serbia)

4.Relationship of the Oxidative Stress Markers to Main Vascular Manifestations of APS.

Stanisavljevic Natasa,(Belgrade,Serbia)

5.Hronic inflammation and coronary heart disease

Branko Beleslin,(Belgrade,Serbia)

6. Beyond inflammation responses in the brain

Jorge I. Celis, (Medellin-Colombia)