

DAY 1 (APRIL 15TH 2021) (VOD)

SESSION: ATRIAL FIBRILLATION

Lectures	Lecturer
ECG as the simplest risk predictor of AF stroke and cognitive impairment – the results of BAYES Registry	Antonio Bayes de Luna (Spain)
Long-term Arrhythmia Monitoring: ILR or Smart Watch?	Samuel Johnston (USA)
Method for Monitoring Pulse Rate using Facial Videoplethysmographic Signals Recorded in AF Patients with Smart Device	Jean Philippe Couderc (USA)
My approach toward AHRE	Bulent Gorenek (Turkey)
Atrial myopathy and atrial fibrillation	Philippe Chevalier (France)

SESSION: P WAVE INDICES – A CRITICAL APPRAISAL OF CLINICAL UTILITY, CHALLENGES, AND FUTURE RESEARCH

Lectures	Lecturer
Definitions and Measurement of P Wave Indices – Pearls and Pitfalls	Antoni Bayes De Luna (Spain)
Refining Prediction of Ischemic Stroke Using P Wave Indices	Maria Baturova (Russia)

SESSION: DON'T FORGET ABOUT LESS FREQUENT CAUSES OF ECG ABNORMALITIES/ CARDIAC ARRHYTHMIAS

Lectures	Lecturer
Cardiovascular Complications of Opioid Use	Mark Haigney (USA)
Early ECG indices for predicting chronic doxorubicin-induced cardiotoxicity	Toshio Kinoshita (Japan)
Sleep apnea and arrhythmias	Malgorzata Kurpesa (Poland)
Drug-induced proarrhythmic effects: What do we know about the role of genotype?	Emanuela Locati (Italy)
Changes in arrhythmogenic properties and heart rate variability after carbon-ion radiotherapy to anterior chest in patients with mediastinum cancer	Koichiro Yoshioka (Japan)
Analysis of depolarization abnormality and autonomic nerve function after stereotactic body radiation therapy for ventricular tachycardia in a patient with old myocardial infarction	Mari Amino (Japan)

SESSION: RISK STRATIFICATION

Lectures	Lecturer
EHRA/APHRs/LAHRs consensus on risk assessment in cardiac arrhythmias: Introduction of the main topics	Takanori Ikeda (Japan)
Interlead EKG Heterogeneity for SCD Risk Assessment and Identifying CRT Responders	Richard Verrier (USA)
The role of genetic background of SCD risk stratification in different cardiomyopathies	Elena Zaklyazminskaya (Russia)
The combined evaluation of ambulatory-based late potentials and nonsustained ventricular tachycardia to predict arrhythmic events in patients with post myocardial infarction: A Japanese Noninvasive Electrocardiographic Risk Stratification for prediction of Sudden Cardiac Death Substudy	Kenishi Hashimoto (Japan)

SESSION: SYNCOPE

Lectures	Lecturer
Syncope as a predictor of SCD	Dmitry Duplyakov (Russia)
Neurocardioablation in patients with syncope	Sebastian Stec (Poland)
Implantable recorders in diagnostic of syncope	Piotr Kulakowski (Poland)
Syncope in children	Leonid Makarov (Russia)

SESSION: ECG DIAGNOSIS OF LEFT VENTRICULAR HYPERTROPHY – THE TIME FOR CHANGING THE PARADIGM

Lectures	Lecturer
ECG diagnosis of left ventricular hypertrophy – the time for changing the paradigm	Ljuba Bacharova (Slovakia)
Diffuse myocardial fibrosis reduces electrocardiographic voltage measures of left ventricular hypertrophy	Maren Maanja (Sweden)

SESSION: CARDIAC IMPLANTABLE DEVICES

Lectures	Lecturer
Leadless pacemakers – state of the art and perspectives	Przemyslaw Mitkowski (Poland)
Remote monitoring for cardiac electronic implantable devices – should we move to alert based care?	Niraj Varma (USA)
Detection in S-ICD: New device – old problems	Krzysztof Kaczmarek (Poland)
Use of the WCD in current clinical practice and results of the VEST trial	Valentina Kutyifa (USA)

DAY 2 (APRIL 16TH 2021) (VOD)

SESSION: NOVEL STRATEGIES IN TREATMENT OF ATRIAL FIBRILLATION

Lectures	Lecturer
Atrial fibrillation ablation in heart failure	Adam Mohmand Borkowski (USA)
Renal denervation and AF ablation	Jonathan Steinberg (USA)
One-step strategy of catheter ablation and left atrial appendage closure for management of atrial fibrillation in 2021	Yi-gang Li (China)
Gender disparity in atrial fibrillation	Magdalena Zeglin (USA)

SESSION: ELECTROCARDIOGRAPHY IN THE CATH LAB

Lectures	Lecturer
Clinical-electrocardiographic prediction of post TAVI complete AV Block	Paul Malik (Canada)
ECG patterns of “Ischemia-equivalent”	Yochai Birnbaum (USA)
Electrical complications of Mitral Clip and Patent Foramen Ovale (PFO) closure	Enes Gul (Turkey)
The ECG of left main occlusion	Miguel Fiol (Spain)

SESSION: NEW KIDS ON THE BLOCK – INNOVATIVE DIAGNOSIS AND MANAGEMENT OF INTRACARDIAC BLOCKS

Lectures	Lecturer
Interatrial block – state of art in year 2021 and clinical implications	Adrian Baranchuk (Canada)
Atrioventricular blocks – Cardioneuroablation	Sebastian Stec (Poland)
Left bundle branch block – His bundle pacing and beyond into ventricle	Marek Jastrzębski (Poland)
Intracardiac blocks – Lessons from high density mapping and catheter ablation	Laura Vitali-Serdoz Dirk Bastian (Germany)

SESSION: RISK STRATIFICATION FOR ICD

Lectures	Lecturer
EU-CERT-ICD results	Markus Zabel (Germany)
Personalized risk prediction and prevention – PROFID-EU trial	Radoslaw Lenarczyk (Poland)
Arrhythmic risk stratification in post-myocardial infarction patients with preserved ejection fraction: the PRESERVE EF study	Polychronis Dilaveris (Greece)

SESSION: INHERITED ARRHYTHMIAS/GENETIC COUNSELING

Lectures	Lecturer
Atrial fibrillation in inherited cardiomyopathies	Pyotr Platonov (Sweden)
Genetic counseling of families with Inherited arrhythmias	Thomas Kligenheben (Germany)
Genetics of ARVC. State of the art and own experience	Katarzyna Biernacka (Poland)
Update on ICD therapy in the LQTS	Wojciech Zareba (USA)
Risk stratification in Brugada syndrome	Artur Filipecki (Poland)
Physical activity in cardiomyopathies – new concepts and new perspectives from 2020 AHA/ACC Sports Cardiology Guidelines	Lidia Ziółkowska (Poland)

SESSION: PHYSICAL ACTIVITY AND LIFESTYLE

Lectures	Lecturer
Is there a link between heart rate, physical activity and longevity?	Ewa Piotrowicz (Poland)
Use of Commercially Available Wearable Technology for Heart Rate and Activity Tracking in Primary and Secondary Cardiovascular Prevention	Polychronis Dilaveris (Greece)
Cardiovascular risk in metabolic syndrome and medial arterial calcification	Ludovit Gaspar (Slovakia)
Telecare in heart failure – challenges and pitfalls in clinical trials	Pawel Krzesiński (Poland)
Coronary Plaque Destabilization Responsible for Death and MI: Pathophysiologic Mechanisms and Methods of Preemptive Detection	Peter Stone (USA)

SESSION: ECG – IMAGING		Chairmen: Suave Lobodzinski (USA), Rob MacLeod (USA)
Lectures	Lecturer	
ECG Imaging	Rob MacLeod (USA)	
Normal Cine-electrocardiogram	Peter van Damm (Netherlands)	
Clinical Applications of ECGI	Michael Mangrum (USA)	
Assessment of Patient Response to CRT Based on Late Activation Zone as Detected by Non-Invasive ECG Imaging	Danila Potyagaylo (USA)	
Improving the diagnostic value of the ECGI	Suave Lobodzinski (USA)	
SESSION: CONGENITAL HEART DISEASES IN ADULTS		
Lectures	Lecturer	
Physical activity in congenital heart defects as individualized exercise prescription – New concepts from 2020 EAPC/ESC/AEPC Sports Cardiology Recommendations	Anna Turska-Kmieć (Poland)	
Ventricular arrhythmias in tetralogy of Fallot – whom to treat?	Maria Miszczak- Knecht (Poland)	
Cardiac resynchronization therapy in congenital heart disease: From immediate hemodynamic improvement to long-term benefit	Jan Janousek (Czech Republic)	
SESSION: CARDIAC RESYNCHRONIZATION THERAPY		
Lectures	Lecturer	
CRT responders – where do we stand?	Wojciech Zareba (USA)	
Why shouldn't we implant CRT in patients with atrial fibrillation	Maciej Sterliński (Poland)	
Physiological heart pacing and its modifications	Jacek Gajek (Poland)	
Physiological vs non-physiological heart pacing as assessed by Ultra-high-frequency ECG	Karol Čurila (Czech Republic)	
DAY 3 (APRIL 17TH 2021) (VOD)		
SESSION: ATRIAL FIBRILLATION – PHARMACOTHERAPY		
Lectures	Lecturer	
"Watchful waiting" for the treatment of AF – the end is in sight	Bruno Reissmann (Germany)	
Oral anticoagulation in renal dysfunction	Ali Oto (Turkey)	
Pill in pocket anticoagulation for AF using AF sensing smartwatch	Rod Passman (USA)	
SESSION: VENTRICULAR ARRHYTHMIAS		
Lectures	Lecturer	
Premature ventricular complexes: diagnostic and therapeutic considerations in clinical practice	Bulent Gorenek (Turkey)	
Arrhythmias in non-revascularized vs revascularized myocardium	Christian Jons (Denmark)	
J-wave pattern and ischemia-induced arrhythmias	Pyotr Platonov (Sweden)	
Arrhythmogenic cardiac tumors	Krzysztof Kaczmarek (Poland)	
Radiosurgery in Treatment of Ventricular Tachycardia	Krzysztof Gołba (Poland)	
Hypokalemia related QT prolongation: from mechanisms in pre- clinical models to risk Stratification in humans?	Gary Tse (China/UK)	
SESSION: ECG DIAGNOSIS OF STEMI: HANDLING CONFOUNDERS		
Lectures	Lecturer	
ST thresholds for STEMI	Peter Macfarlane (United Kingdom)	
Diagnosing STEMI in RBBB	Yochai Birnbaum (USA)	
STEMI with one lead ST elevation	Kjell Nikus (Finland)	
Diagnosing STEMI in patients with PPMs	Yochai Birnbaum (USA)	
SESSION: AUTONOMIC NERVOUS SYSTEM		
Lectures	Lecturer	
Does POTS exist?	Brian Olshansky (USA)	
Cardiac dysautonomia as one manifestation of primary neurogenic disorders	Thomas Klingenhoben (Germany)	
Inappropriate sinus tachycardia – state of the art	Paweł Ptaszynski (Poland)	
SESSION: INHERITED ARRHYTHMIAS		
Lectures	Lecturer	
Andersen-Tawil syndrome	Manlio Marquez (Mexico)	
Electrocardiographic assesment of the risk of SCD in ARVC	Olgierd Woźniak (Poland)	

Novel electrocardiographic characterization of Brugada Syndrome: Implication for pathogenesis	Emanuela Locati (Italy)
Electro-vectorcardiography in the Diseases of the Right Ventricle Outflow Tract	Carlos Pastore (Brazil)
New vectorcardiogram aspects: contribution on J point syndrome	Nelson Samesima (Brazil)
Misleading «twin» variants in different transcripts: a complex case of genetic counseling	Elena Zaklyazminskaya, Anna Shestak, Vera Komoliatova, Leonid Makarov (Russia)

SESSION: ARTIFICIAL INTELLIGENCE

Lectures	Lecturer
AI in atrial fibrillation	Joachim Behar (Israel)
AI in ECG classification and prediction of risk of death	Antonio Horta Ribeiro (Sweden)
Machine learning in CRT devices	Mina Chung (USA)
Deep learning for ECG Classification in the Chinese Population	Tingting Zhu (United Kingdom)
Artificial intelligence-assisted analysis on the association between exposure to ambient fine particulate matter and incidence of arrhythmias in outpatients of Shanghai community hospitals	Yi-gang Li (China)

SESSION: INFECTIONS AND ARRHYTHMIAS

Lectures	Lecturer
Diagnostic pathways in case of arrhythmias/conduction disturbances of unknown origin suspected of infectious etiology	Krzysztof Kaczmarek (Poland)
Lyme disease	Adrian Baranchuk (Canada)
Differentiation of the source of cardiac arrhythmias by Cardiac Magnetic Resonance Imaging	Vinzenz Hombach (Germany)
ECG in Chagas disease	Antonio Ribeiro (Brazil)

SESSION: SPORTS

Lectures	Lecturer
Do we still need sport cardiology? Current role and new directions 2021	Anna Turska-Kmieć (Poland)
New concepts and new perspectives in supraventricular arrhythmias from 2020 ESC Sports Cardiology Guidelines	Renata Głowczyńska (Poland)
Common ECG findings in athletes	Przemysław Guzik (Poland)
Return to sport/physical activity after COVID-19	Lukasz Małek (Poland)

ISHNE/ISE SPECIAL SESSIONS AND ECG WORKSHOPS (VOD)

SESSION: EDITORS' CHOICE – ANNALS OF NONINVASIVE ELECTROCARDIOLOGY AND JOURNAL OF ELECTROCARDIOLOGY

Lectures	Lecturer
Annals of Noninvasive Electrocardiology	Wojciech Zareba (USA)
Journal of Electrocardiology	Adrian Baranchuk (Canada)
A deep neural network learning algorithm outperforms a conventional algorithm for emergency department electrocardiogram interpretation	Stephen Smith (USA)
Value of electrocardiography in coronavirus disease 2019 (COVID-19)	Sohaib Haseeb (Canada)
The prognostic significance of T-wave inversion according to ECG lead group during long-term follow-up in the general population	Tiia Istolahti (Finland)
Frequent premature ventricular contractions. Association of burden and complexity with prognosis according to the presence of structural heart disease	Leonor Parreira (Portugal)

SESSION: INTERNATIONAL SOCIETY OF ELECTROCARDIOLOGY YOUNG COMMUNITY SESSION

Lectures	Lecturer
Medical and public education on electrocardiology in the age of digital health	Sharen Lee (Hong Kong)
Gender equity in electrocardiology: Examination of trends, barriers, and call to action	Cynthia Yeung (Canada)
Overview of future roles of big data and artificial intelligence in electrocardiology	Gabriela Miana de Mattos Paixao (Brazil)
ECG as a adjunctive tool in cardiovascular risk prediction	Marcelo Martins (Brazil)

Chairmen:
Göksel Çinier (Turkey),
Bryce Alexander (Canada)

SESSION: ECG UNIVERSITY v2. ECG IN IMPLANTABLE DEVICES – ROUND TABLE	
Lectures	Chairmen: Jonathan Steinberg (USA), Sergio Dubner (Argentina), Adrian Baranchuk (Canada)
Lectures	Lecturer
Introduction:	Adrian Baranchuk (Canada)
Statistics:	Sergio Dubner (Argentina)
Our experience:	Jonathan Steinberg (USA)
PVC response algorithm	Jose Manuel Rubio Campal (Argentina)
Trends of cardiac rhythm management: Pacing of the normal conduction system	Horacio Quiroga Ponce (Argentina)
Failure to capture on ventricular pacing	Marek Jastrzębski (Poland)
IN MEMORY OF PROF. HEIN WELLENS	
In memory of Hein Wellens: unique scientist, teacher, doctor and friend	Ton Gorgells (Netherlands)
Hein Wellens contributions to Clinical Cardiac Electrophysiology	Eduardo Sternick (Brazil)
Hein Wellens and Programmed Electrical Stimulation of the Heart	Robert Lemery (USA)
PIERRE RIJLANT LECTURE	
Lectures	Lecturer
The False STEMI-NonSTEMI Dichotomy. This is the basis for replacing the STEMI/NonSTEMI Acute MI paradigm with our new Occlusion MI/Non-Occlusion MI paradigm (OMI-NOMI)	Stephen Smith (USA)
SESSION: ECG WORKSHOPS	
Lectures	Lecturer
Challenging ECG cases	Andres Perez Riera (Brazil)
"Let's count P waves " – ECG course	Rafal Baranowski (Poland)
SESSION: ISE 2021 VIRTUAL SYMPOSIUM ON SUDDEN CARDIAC DEATH, IN MEMORIAM TO DR. BERNARD LOWN	
Chairmen: Richard Verrier (USA), Heikki Huikuri (Finland)	
Remembering Dr. Bernard Lown	Douglas P. Zipes (USA)
Scope of the Problem of SCD, Epidemiology and Pathophysiology	Heikki Huikuri (Finland)
Neural Activity and Ventricular Fibrillation	Richard L. Verrier (USA)
Precision Medicine and Cardiac Channelopathies	Peter J. Schwartz (Italy)
SESSION: YOUNG INVESTIGATORS AWARD SESSION – INTERNATIONAL SOCIETY OF ELECTROCARDIOLOGY	
Chairmen: Bulent Gorenek (ISE President-Elect 2021–2023) Iwona Cygankiewicz (ISHNE President 2019–2021)	
Long-term Outcomes in Treated Lyme Carditis: A Case Series	Chang (Nancy) Wang, Cynthia Yeung, Andres Enriquez, Sanoj Chacko, Simon Hansom, Damian Redfearn, Christopher Simpson, Hoshiar Abdollah, Adrian Baranchuk (Canada)
Territory Wide Study Comparing the Ventricular Tachyarrhythmia Risk in Paediatric/Young and Adult Brugada Syndrome	Sharen Lee, Ngai Shing Mok (Hong Kong, China)
Decreased Depolarization Vector Magnitude May Help Identify Events in Patients with Long QT Syndrome	Anastasia Bury, Kim Day, Daniel Cortez (USA)
Factors influencing the Interatrial Conduction Disorders in Geriatric Patients	Wiktoria Tomków, Leon Reuer, Michał Surdacki, Jacek Gajek (Poland)
Relationship between Ventricular Repolarization Parameters and the Inducibility of Ventricular Arrhythmias during Electrophysiological Study in Patients with Coronary Artery Disease	Guilherme de Carvalho, Dalmo Moreira, Renato Lopes, Luciana Armaganijan (Brazil)
Deep neural network estimated electrocardiographic-age as a mortality predictor	Gabriela Paixão, Antonio Ribeiro, Emilly Lima, Manoel Ribeiro, Marcelo Pinto Filho, Paulo Gomes, Derick Oliveira, Esther Sabino, Bruce Duncan, Luana Giatti, Sandhi Barreto, Wagner Meira Junior, Thomas Schon, Antonio Luiz Ribeiro (Brazil)
Three-Dimensional Vectorcardiographic Characteristics of Breast Cancer Patients Treated with Chemotherapy	Yueying Wang, Xi Yin, Xufei Liang, Yongzhen Chen, Shuo Pan, Ziliang Chen, Xuhong Geng, Tong Liu (China)
Interatrial conduction disorders – clinical, echocardiographic and electrocardiographic characteristic of older population	Michał Surdacki, Wiktoria Tomków, Leon Reuer, Malgorzata Sobieszczanska (Poland)

The left atrial Dimension Changes insufficiently reflect interatrial conduction Disorders in elderly Population	Leon Reuer, Wiktorja Tomków, Michal Surdacki, Jacek Gajek (Poland)
Prognostic Value of Electrocardiographic Abnormalities in Adults from the Brazilian Longitudinal Study of Adults' Health	Marcelo Martins, Luisa Brant, Rodrigo dos Reis, Luana Giatti, Bruce Duncan, Paulo Lotufo, Maria de Jesus da Fonseca, José Geraldo Mill, Maria da Conceição de Almeida, Peter Macfarlane, Sandhi Barreto, Antonio Luiz Ribeiro (Brazil)
P wave duration and interatrial conduction abnormalities in paroxysmal and persistent typical atrial flutter	Jan Šlimak, Jakub Mercik, Malte Unkell, Grzegorz Zawadzki, Jadwiga Radziejewska, Jacek Gajek (Poland)
Evaluation of interatrial conduction disorders in a non-selected group of elderly patients	Michal Surdacki, Wiktorja Tomków, Leon Reuer, Malgorzata Sobieszczanska (Poland)
„Screening of Subclinical Atrial Fibrillation in Dialytic Patients Using a Portable Device”	Adson Carvalho, Gabriel Carmo, Cassia Silva, Antônio Ribeiro (Brazil)
Abnormalities of 24-hour Holter Monitoring in the Context of Echocardiographic and Biochemical Right Ventricle Overload in Consecutive Patients with Acute Pulmonary Embolism	Monika Lisicka, Joanna Radochońska, Marta Skowrońska, Michał Machowski, Bartosz Karolak, Anna Maria Gawalkiewicz, Jan Wójcik, Paulina Łazik, Katarzyna Kurnicka, Piotr Pruszczyk, Piotr Bienias (Poland)
ST segment changes in nodal re-entrant tachycardia - a clinically important issue or just an artefact?	Jakub Mercik, Jadwiga Radziejewska, Katarzyna Pach, Dorota Zyśko, Jacek Gajek (Poland)
P wave duration and morphology in patients undergoing cryoablation for atrial fibrillation	Peter Stephan Wolff, Malte Unkell and Jacek Gajek
P-wave dispersion – the new approach to the old vision	Jacek Zawadzki, Jakub Mercik, Aleksandra Gajek-Marecka, Grzegorz Zawadzki, Jakub Adamowicz, Dorota Zysko, Agnieszka Sławuta, Jacek Gajek (Poland)
Is the intraatrial conduction delay induced by the cryoablation pulmonary vein isolation?	Jacek Zawadzki, Aleksandra Gajek, Grzegorz Zawadzki, Jakub Adamowicz, Agnieszka Sławuta, Dorota Zysko, Jacek Gajek (Poland)
In Elderly Patients with Permanent AF the Left Ventricle Contractility is Influenced by Ventricular Response Rate but not by other AF Characteristics	Patrycja Paluszkiewicz, Adrian Martuszewski, Mateusz Nowak, Malgorzata Sobieszczanska, Jacek Gajek (Poland)

ICE 2021 ABSTRACT SESSION

BASIC SCIENCE

Melatonin Prevented Early Activation Slowing and Ventricular Fibrillation in a Porcine Model of Acute Myocardial Ischemia	Alena S. Tsvetkova, Olesya G. Bernikova, Alexey O. Ovechkin, Marina M. Demidova, Pyotr G. Platonov, Jan E. Azarov
Electrophysiological Determinants of Inducibility of Ventricular Tachyarrhythmias in Experimental Diabetes Mellitus of Different Duration	Ekaterina N. Pershina, Jan E. Azarov, Marina A. Vaykshnorayte, Olesya G. Bernikova, Alexey O. Ovechkin

CLINICAL

His Bundle Pacing in Patient with Myotonic Dystrophy Type 1	Benjamin Smith, Steffi Masilamani, Daniel Cortez
Cardiovascular Risk in Metabolic Syndrome and Medial Arterial Calcification	Ludovit Gaspar, Dasa Mesarosova
The Knowledge About the Use Of An Automatic External Defibrillator In Cardiac Arrest	Sara Cristine Marques dos Santos, Thaís Lemos de Souza Macêdo, Pietra Moreira Vieira, Ivan Lucas Picone Borges dos Anjos, Aline de Jesus Oliveira, Eduardo Tavares Lima Trajano, Ivana Picone Borges de Aragão.
An epidemiological insight of acute myocardial infarction incidence in the countryside of the city of Rio de Janeiro for a decade	Aline de Jesus Oliveira, Sara Cristine Marques dos Santos, Thaís Lemos de Souza Macêdo, Ivan Lucas Picone Borges dos Anjos, Elke Oliveira Santos, Anderlúcia Côrrea Guedes, Patrícia Rangel Sobral Dantas, Ivana Picone Borges de Aragão

Transvenous Temporary Pacemaker Implant Procedures In Brazil for a decade	Aline de Jesus Oliveira, Sara Cristine Marques dos Santos, Thaís Lemos de Souza Macêdo, Ivan Lucas Picone Borges dos Anjos, Elke Oliveira Santos, Anderlúcia Córrea Guedes, Patrícia Rangel Sobral Dantas, Ivana Picone Borges de Aragão
Treatment for Arrhythmia Procedures in the countryside of the city of Rio de Janeiro for a decade	Aline de Jesus Oliveira, Sara Cristine Marques dos Santos, Thaís Lemos de Souza Macêdo, Ivan Lucas Picone Borges dos Anjos, Elke Oliveira Santos, Anderlúcia Córrea Guedes, Patrícia Rangel Sobral Dantas, Ivana Picone Borges de Aragão
Transvenous Defibrillator Cardioverter Implantation Procedures in Brazil for a decade	Aline de Jesus Oliveira, Sara Cristine Marques dos Santos, Thaís Lemos de Souza Macêdo, Ivan Lucas Picone Borges dos Anjos, Elke Oliveira Santos, Anderlúcia Córrea Guedes, Patrícia Rangel Sobral Dantas, Ivana Picone Borges de Aragão
Arrhythmias and Cardiac Conduction Disorders. What Is the Epidemiological Status of the Brazilian Population?	Aline de Jesus Oliveira, Sara Cristine Marques dos Santos, Thaís Lemos de Souza Macêdo, Ivan Lucas Picone Borges dos Anjos, Elke Oliveira Santos, Anderlúcia Córrea Guedes, Patrícia Rangel Sobral Dantas, Ivana Picone Borges de Aragão
Incidence of Acute Myocardial Infarction in Young Population	Aline de Jesus Oliveira, Sara Cristine Marques dos Santos, Thaís Lemos de Souza Macêdo, Ivan Lucas Picone Borges dos Anjos, Elke Oliveira Santos, Anderlúcia Córrea Guedes, Patrícia Rangel Sobral Dantas, Ivana Picone Borges de Aragão
Role of P wave indices in normal sinus rhythm and tachycardia	Arya Bhardwaj, J. Sivaraman
Association between T-Wave Inversion in the Exercise ECG and Aerobic Capacity in Cross-Country Skiers	Olesya G. Bernikova, Ekaterina A. Tikhonovich, Nina G. Varlamova, Igor O. Garnov, Jan E. Azarov
COMPUTING	
New Iterative Pace Mapping Algorithm to Predict Ventricular Ectopy Origin	Andony Arrieula, Hubert Cochet, Pierre Jaïs, Michel Haïssaguerre, Mark Potse
Improved recording of P-wave amplitude by reduced leads for mHealth applications	N. Prasanna Venkatesh, J. Sivaraman
Atrial Fibrillation beat classification based on fibrillatory waves and Heart Rate Variability features by developing Decision Tree model	B. Dhananjay, J. Sivaraman
ECG CASE REPORTS	
Cardiomyopathy related to right ventricular pacing in a patient with congenital complete heart block	Paulina Przyżycka, Michał Kałowski, Piotr Jakubowski, Izabela Poddębska, Iwona Cygankiewicz, Krzysztof Kaczmarek
Exaggerated atrial repolarization wave amplitude in sinus tachycardia mimicking myocardial ischemia	Arya Bhardwaj, J. Sivaraman

JOINT SESSIONS (VOD)

SESSION: WEARABLES: A PARADIGM SHIFT IN MEDICAL CARE? (HEART RHYTHM SOCIETY/ISHNE JOINT SESSION)

Lectures	Lecturer
Current Evidence Base for Wearable Technology	Emma Svennberg (Sweden)
Emerging wearable technology: Watches and beyond	Rod Passman (USA)
Artificial Intelligence – is this a realistic goal in mHealth	Mintu Turakhia (USA)
Top 5 points (Will wearables make standard ECG monitoring Obsolete?) (ISHNE)	Niraj Varma (USA)

SESSION: ASYMPTOMATIC ARRHYTHMIAS (UKRAINIAN ASSOCIATION OF ARRHYTHMOLOGY AND CARDIAC ELECTROPHYSIOLOGY)	
Lectures	Lecturer
Asymptomatic supraventricular arrhythmias	Mykhaylo Sorokivskyy (Ukraine)
Silent atrial fibrillation and flutter	Oleg Zharinov (Ukraine)
Asymptomatic ventricular arrhythmias	Ulyana Chenyaha-Royko (Ukraine)
SESSION: DIAGNOSTIC AND PROGNOSTIC VALUE OF THE 12-LEAD ELECTROCARDIOGRAM (ELECTROSIAC – COUNCIL OF ARRHYTHMIAS OF THE INTERAMERICAN SOCIETY OF CARDIOLOGY)	
Lectures	Lecturer
Diagnostics and Prognostic value of the ECG in Hypertrophic Cardiomyopathy	Walter Reyes (Uruguay)
Relevance of the ECG in paroxysmal supraventricular tachycardias	Oswaldo Gutierrez (Costa Rica)
Prognostic role of inter-atrial block (Bayés syndrome)	Osmar A. Centurión (Paraguay)
The 12-lead ECG in Long QT Syndrome	Pablo Mendoza (Perú)
SESSION: SARS-COVID-19 INFECTION: NEUROCARDIOLOGICAL MULTIDISCIPLINARY APPROACH (NEUROCARD)	
Lectures	Lecturer
Autonomic nervous system dysfunction in early phase of SARS-Covid-19 infection	Branislav Milovanovic, Vlado Djajić (Serbia)
Neurological and autonomic control impairment in SARS-CoV-2 infection	Sanja Pavlovic, Branislav Milovanovic (Serbia)
Dependency structures in cardiovascular signals of COVID-19 patients	Dragana Bajić, Vlado Đajić, Branislav Milovanović (Serbia)
Phenotypization of COVID-19 patients	Slađana Jovanović, Milan Jovanović, Branislav Milovanović, Vlado Đajić, Dragana Bajić (Serbia)
SESSION: JOINT SESSION OF ISHNE AND THE ARRHYTHMIAS WORKING GROUP OF THE ARGENTINE SOCIETY OF CARDIOLOGY IN MEMORIAM OF PROFESSOR BRANCO MAUTNER DEVICES FOR THE DETECTION OF ASYMPTOMATIC AF – ROUND TABLE	
Lectures	Lecturer
New devices for detection of asymptomatic AF	Harold Kennedy (USA)
What is the meaning of asymptomatic AF detected during PM follow up	Estela Falconi (Argentina)
Detection of Ventricular Arrhythmias in the interrogation of devices. Remote Monitoring Benefitto	Nestor Galizio (Argentina)
SESSION: HYPERTROPHIC CARDIOMYOPATHY IN 2020: FROM GENES TO ECG AND RISK STRATIFICATION (JOINT SESSION ENDORSED BY RUSSIAN SOCIETY OF CARDIOLOGY)	
Lectures	Lecturer
HCM risk stratification from 2014 to 2020: what's new?	Anna Kostareva (Sweden)
Missing and hidden genetics in hypertrophic cardiomyopathy	Elena Zakylazminkaya (Russia)
Atrial fibrillation in hypertrophic cardiomyopathy	Dmitry Duplyakov (Russia)
SESSION: UPDATE ON MANAGEMENT STRATEGIES FOR VENTRICULAR ARRHYTHMIAS AND SUDDEN CARDIAC DEATH (CHINESE HEART RHYTHM SOCIETY)	
Lectures	Lecturer
mHealth in Arrhythmia Management: Digital Medical Tools for Heart Rhythm Professionals	Niraj Varma (USA)
ECG Signal and Individualized Treatment for Early Warning of Sudden Cardiac Death in Patients with High-risk Arrhythmia	Kui Hong (China)

Idiopathic Outflow Tract Ventricular Arrhythmia Ablation	Yu-Mei Xue (China)
How to Map and Ablate Parahisian Ventricular Arrhythmias	Qun-Shan Wang (China)
Early Catheter Ablation for Unstable Ventricular Tachycardia	De-Yong Long (China)
SESSION: WHEN ECG IS THE PROTAGONIST IN THE EP LAB (VENICE ARRHYTHMIAS JOINT SESSION)	Chairmen: Antonio Rossillo (Italy), Iwona Cygankiewicz (Poland)
Electrocardiographic predictors of atrial fibrillation recurrence after pulmonary vein isolation	Adrian Baranchuk (Canada)
Left bundle branch block pattern on ECG can drive pacing modality	Francesco Zanon (Italy)
High risk electrocardiographic marker in Brugada Syndrome	Juan Sieira (Belgium)
Electrocardiographic markers of cardiovascular mortality in SARS-CoV-2 Infection	Matteo Bertini (Italy)