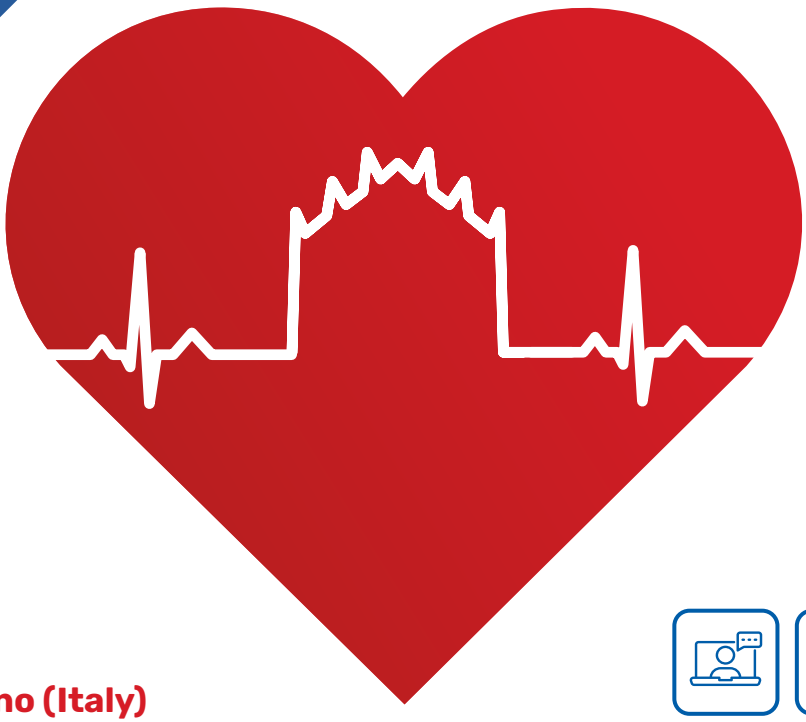
HYBRID CONFERENCE

OCTOBER 2-3, 2026 | PROGRAM



Milano (Italy)

International Congress on Electrocardiology 2026

Multidimensional Approach to Cardiac Arrhythmias: Role of ECG in the Artificial Intelligence Era

ISE INTERNATIONAL SOCIETY OF ELECTROCARDIOLOGY

ISHNE

I.R.C.C.S. Policlinico San Donato

Gruppo San Donato

Friday, October 2 - AULA 1

Multidimensional Approach to Ventricular Arrhythmias and Sudden Cardiac Death

08:30-09:00	**Welcome address** *Lorenzo Menicanti - Emanuela T. Locati*
09:00-10:00	**Plenary Lecture** Moderators - *Lorenzo Menicanti, Adrian Baranchuk* **Role of ECG in the Early Diagnosis of Risk of Sudden Cardiac Death** - *Carlo Pappone*
10:00-11:00	**Mechanisms & Substrates of Cardiac Arrhythmias and their Relation to Surface ECG** Session Moderators - *Manlio Marquez, Ilaria Rivolta*
	Cellular mechanisms of ventricular arrhythmias and relation to surface ECG - *Mark Potse*
	Role of fibrosis, inflammation, immunity and remodeling in arrhythmogenesis - *Luigi Anastasia*
	Interaction of ischemia with cellular mechanisms of arrhythmogenesis - *Antonio Zaza*
	Discussion
11:00-11:30	**Coffee Break**
11:30-12:30	**From Genotype to ECG Phenotype: Risk Stratification and Precision Care in Arrhythmogenic Diseases** Session Moderators - *Giuseppe Ciconte, Pyotr Platonov*
	SCN5A-related channelopathies: Brugada syndrome, LQT3 and Sick sinus syndrome - *Manlio Marquez*
	LQTS: Integrating ECG, Genetics and imaging for individualized risk prediction - *Wojciech Zareba*
	Identification and ablation of the arrhythmogenic substrates of arrhythmogenic cardiomyopathies *Giuseppe Ciconte*
	Discussion
12:30-13:30	**Clinical Challenges and Novel Therapies in Arrhythmogenic Cardiomyopathies** Session Moderators - *Iwona Cygankiewicz, Luigi De Ambroggi*
	Arrhythmogenic cardiomyopathy - Evolving definition - *Pyotr Platonov*
	Personalized pharmacologic therapies in different arrhythmogenic disease phenotypes - *Mori Krantz*
	Role of imaging techniques in identifying arrhythmogenic substrates - *Pietro Spagnolo*
	Discussion
13:30-14:30	**Lunch**

14:30-15:30	**ECG Markers in the Precision Diagnosis of Sudden Cardiac Death** Session Moderator - *Giuseppe Bagliani, Jennifer Streeter, Michele Oppizzi*
	QRS fragmentation and Hemiblocks - *Cinzia Crescenzi*
	Brugada patterns and phenocopies - *Adrian Baranchuk*
	QT Interval and QT dynamics - *Emanuela T. Locati*
	Discussion
15:30-16:30	**Precision Diagnosis of Sudden Cardiac Death** Session Moderators - *Iwona Cygankiewicz, Pyotr Platonov*
	Electrocardiographic diagnosis of arrhythmogenic cardiomyopathies - *Malgorzata Kurpesa*
	Role of Implantable Cardiac Monitoring (ICM) in Arrhythmogenic Cardiomyopathies - *Derek Connelly*
	Role of structural genes in Channellopaties - *Sara Benedetti*
	Discussion
16:30-17:00	**Coffee Break**
17:00-18:00	**AI Models, Prospectives ad Ethical Concerns** Session Moderator - *Peter McFarlane, Raffaele Salerno*
	Models and Roles of AI in Cardiovascular Disease Diagnosis and Management - *Andrea Saglietto*
	Application of AI model in multiparametric evalutation in cardiac patients - *Antonio Ribeiro*
	Ethical, Legal and Regulatory Challenges of Artificial Intelligence in Healthcare - *Enrico Caiani*
	Discussion
18:00:19:00	**ISE General Assembly**

Saturday, October 3 - AULA 1

Multidimensional Approach to Atrial Fibrillation and Atrial Cardiomyopathy

08:00-09:00	**ISHNE Board**
09:00-09:30	**Introduction**
	The PAMP-FA Project - Integrating Electrophysiology, Imaging, and Comorbidity Assessment - *Emanuela T. Locati*
09:30-10:30	**Multidisciplinary Approach to AF diagnosis and Management** Session Moderators - *Luigi Giannelli, Mark Potse*
	ECG parameters in the characterization of patients at risk of AF - *Adrian Baranchuk*
	Imaging techniques for the identification of atrial cardiomyopathy: Role of atrial strain - *Maria Francesca Di Santo*
	Identifying predictors for AF recurrence and ablation success - *Antonio Boccellino*
	Discussion
10:30-11:00	**Coffee Break**
11:00-12:00	**AF Substrate Characterization: Integrating Electroanatomic Mapping and Imaging Techniques** Session Moderators - *Davide Morciano, Peter Van Dam*
	Advanced 3D Mapping for Substrate Characterization - *Raffaele Salerno*
	Merging EAM with cardiac imaging to improve anatomical accuracy - *Francesco Viola*
	Integrating ECG and Echo in predicting stroke and morbidity in atrial fibrillation - *Mori Krantz*
	Discussion
12:00-13:00	**AF Genetics & Biomarkers** Session Moderators - *Sara Benedetti, Alessia Vuturo, Elena Zaklyazminskaya*
	Decoding the Genetic Substrates of Atrial Fibrillation *Elena Zaklyazminskaya*
	Emerging Biomarkers for Risk Stratification in AF - *Marco Piccoli*
	Multiomics Insights into Epigenetic and Genetic Mechanisms of AF - *Monica Franzese*
	Discussion
13:00-14:00	**Lunch**

14:00-15:00	**How to Stratify the Risk of Atrial Fibrillation and Stroke** Session Moderators - *Iwona Cygankiewicz, Jennifer Streeter*
	Emerging Biomakers Linking Atrial Fibrillation to the Risk of Stroke - *Jennifer Streeter*
	Wearable vs implantable devices for AF detection: How to choose - *Constantine Bakogiannis*
	Device-detected and wearable-detected AF, and implications for adverse outcome risks - *Linda Johnson*
	Discussion
15:00-16:00	**Hypertrophic Cardiomyopathy and Left Ventricular Hypertrophy** Session Moderators - *Franco Cecchi, Iwona Cygankiewicz*
	QRS complex patterns in LVH and obesity: Markers of electrical remodeling of myocardium - *Ljuba Bacharova*
	ECG in HCM: from genotypes to phenotypes, risk stratification and therapy - *Franco Cecchi*
	Role of ECG in the differential diagnosis of diseases with hypertrophic phenotypes - *Paolo Compagnucci*
	Discussion
16:00-16:30	**Coffee Break**
16:30-17:00	**Plenary Session** Session Moderators - *Adrian Baranchuck, Emanuela T. Locati*
	The future of electrophysiology in the era of AI - *Vassilis Vassilikos*
	Panel Discussion Session Moderators - *Constantino Bakogiannis, Adrian Baranchuk, Antonio Boccellino, Laura Burattini, Edward Grant, Malgorzata Kurpesa* *Manlio Marquez*
17:00-18:00	**ISE ISHNE YIA** Award Ceremony + Closing Ceremony

Friday, October 2 - AULA 2

Multidimensional Approach to Ventricular Arrhythmias and Sudden Cardiac Death

10:00-11:00	**From Physiology to ECG Digital Models** Session Moderators - *Laura Burattini, Massimo Rivolta*
	Artificial Computational Modelling and ECG simulation of the Human Heart - *Axel Loewe*
	Atrial and ventricular ECG Modeling for the Identification of Cardiac Arrhythmias - *Peter van Dam*
	AI based ECG prediction of cardiac arrhytmias: Does precision matter? - *Peter McFarlane*
	Discussion
11:00-11:30	**Coffee Break**
11:30-12:30	**AI in ECG analysis and big-data mining** Session Moderators - *Constantinos Bakogiannis, Luigi Anastasia*
	Prognostic role of elctrocardiographic alternans in wearable and implantable devices - *Laura Burattini*
	Role of AI in the detection of Brugada pattern in digital ECG *Edward Grant*
	Role of AI and LLM in the analysis of unstructured clinical databases - *Marco Pancotti and Sara Paratico*
	Discussion
12:30-13:30	**ECG and AI in Preventing Sudden Cardiac Death in the Young** Session Moderators - *Daniel Cortez, Gabriele Vignati*
	Preventing sudden death in infants and children - *Parvin Dorostkar*
	Non invasive evaluation of arrhythmic risk in congenital heart disease - *Daniel Cortez*
	Differences between competitive and tactical athletes in sudden death rates - *Mark Hagney*
	Discussion
13:30-14:30	**Lunch - ISE COUNCIL MEETING**

14:30-15:30	**Multiparametric Risk stratification of Ischemic Disease and Heart Failure** Session Moderators - *Maurizio Lunati, Manlio Marquez*
	Stemi versus acute occlusion myocardial infarction: new paradigms - *Yochai Birnbaum*
	Role of surface ECG in physiologic cardiac pacing - *Krzysztof Kaczmarek*
	Role of Sleep Apnea in cardiac arrhythmias and heart failure - *Carolina Lombardi*
	Discussion
15:30-16:30	**ISE ISHNE YIA Abstract Session** Session Moderators - *Parvin Dorostkar, Pyotr Platonov*
	Discussion
16:30-17:00	**Coffee Break**
17:00-18:00	**e-health Telemedicine 2.0 (LB/AS)** Session Moderators - *Mori Krantz*
	Novel telemedicine scenarios for detection and management of atrial fibrillation and heart failure - *Gabriele Zanotto*
	Telemedicine in management of arrhythmias in vulnerable patients: The case of women with eating disorders *Ewa Piotrowicz*
	New AI challenges for Telemedicine: Where to go from here - *Polychronis Dilaveris*
	Discussion

Saturday, October 3 - AULA 2

Multidimensional Approach to Atrial Fibrillation and Atrial Cardiomyopathy

09:30-10:30	**e-health in Wearable and Portable Devices** Session Moderators - *Laura Burattini, Edward Grant*
	New view of heart rate variability in the era of wearable devices - *Kostantinos Bakogiannis*
	Role of AI in interpretation of ECG tracings by wearable and portable devices - *Gary Tze*
	Comparison of rule-based versus AI algorithms for atrial fibrillation detection in Holter recordings - *Fabio Badilini*
	Discussion
10:30-11:00	**Coffee Break**
11:00-12:00	**From AF Diagnosis to Risk Stratification** Session Moderators - *Alessandro Fuga, Malgorzata Kurpesa*
	Machine learning prediction of outcome following atrial fibrillation ablation - *Raffaele De Lucia*
	Atrial fibrillation and brain: How to stratify and manage the thromboembolic risk - *Lin Yee Chen*
	Atrial fibrillation in athletes: Diagnosis, prevention and management - *Luigi Sciarra*
	Discussion
12:00-13:00	**ISE ISHNE Abstract Session** Session Moderator - *Parvin Dorostkar, Pyotr Platonov*
	Discussion
13:00-14:00	**Lunch - ISHNE General Asssembly**
14:00-15:00	**Neurocardiology and Syncope** Session Moderators - *Serenella Castelvecchio, Serenella Castelvecchio*
	Role of ECG in arrhythmic risk stratification in neuromuscular diseases - *Thomas Kligenheben*
	Evaluation of SNS activity in syncope, orthostatic hypotension and POT - *Milanovic Branislav*
	Magnetic Resonance Imaging in Non-MRI-Conditional Cardiac Implantable Electronic Devices - *Bulent Gorenek*
	Discussion
15:00-16:00	**EKG Masterclass** Faculty: *Adrian Baranchuk, Jennifer Streeter, Antonio Zaza, Giuseppe Bagliani*
	Not all ST elevation are ischemia
	Differential Diagnosis of wide complex tachycardia
	Discussion