

## July 6 (Thu.) Room 7

### IS/ICE-JHRS Session 1

#### UPDATES OR ALTERNATE IDEA OF ANTICOAGULANT THERAPY IN NONVALVULAR AF PATIENTS

8 : 30 ~ 9 : 30

Chair Hirotsugu Atarashi (*AOI Hachioji Hospital, Japan*)  
Nobuhisa Hagiwara (*Tokyo Women's Medical University, Japan*)

- IS/ICE-JHRS1-1 CHADSVASC<sub>2</sub> SCORE: ANY ALTERNATIVES AROUND?**  
Vassilios Vassilikos  
*Aristotle University of Thessalonik, Greece*
- IS/ICE-JHRS1-2 ANTICOAGULANT TREATMENT OF NONVALVULAR AF PATIENTS BASED ON CLINICAL EVIDENCE IN JAPAN**  
Eitaro Kodani  
*Nippon Medical School Tamanagayama Hospital, Japan*
- IS/ICE-JHRS1-3 EARLY DIAGNOSIS AND RISK MANAGEMENT OF AF PATIENTS USING ANTICOAGULANTS**  
Hidemori Hayashi  
*Juntendo University Graduate School of Medicine, Japan*
- IS/ICE-JHRS1-4 ARTIFICIAL INTELLIGENCE AND AF CLINICAL PRACTICE: WHAT A SINUS RHYTHM ECG TELLS US?**  
Shinya Suzuki  
*The Cardiovascular Institute, Japan*

### IS/ICE-JHRS Session 2

#### NONINVASIVE RISK STRATIFICATION IN VARIOUS CLINICAL SITUATION

9 : 40 ~ 10 : 40

Chair Pyotr G. Platonov (*Lund University, Sweden*)  
Hideo Mitamura (*Tachikawa Hospital, Japan*)

- IS/ICE-JHRS2-1 JOURNEY THROUGH GUIDELINES ON SUDDEN CARDIAC DEATH- WHY DID THEY ABANDON NONINVASIVE RISK STRATIFICATION?**  
Iwona Cygankiewicz  
*Medical University of Lodz, Poland*
- IS/ICE-JHRS2-2 ECG INDICES FOR ARRHYTHMIC RISK STRATIFICATION IN HF PATIENTS**  
Gary Tse  
*School of Nursing and Health Studies, Hong Kong Metropolitan University, China*
- IS/ICE-JHRS2-3 ECG AS A BASIC TOOL FOR STRATIFYING THE RISK OF SUDDEN CARDIAC DEATH**  
Malgorzata Kurpesa  
*Medical University of Lodz, Poland*
- IS/ICE-JHRS2-4 LEFT VENTRICULAR ENDOCARDIAL ELECTROANATOMIC MAPPING FOR PATIENTS WITH TACHYCARDIA-INDUCED CARDIOMYOPATHY**  
Daisuke Togashi, Ikutaro Nakajima, Akira Kasagawa, Yui Nakayama, Kenichi Sasaki, Tomoo Harada, Yoshihiro Akashi  
*St. Marianna University Hospital, Japan*

**IS/ICE-JHRS Session 3**  
**ICE SPECIAL LECTURES**

11 : 00 ~ 12 : 00

Chair **Bülent Görenek** (*Eskisehir Osmangazi University, Turkey*)  
**Takanori Ikeda** (*Toho University Graduate School of Medicine, Japan*)

**IS/ICE-JHRS3-1**     **ISHNE STERN LECTURE: THE QRS DETERMINES CANDIDACY FOR CRT- SHOULD IT BE CALIBRATED TO SEX, RACE AND HEIGHT ?**

**Niraj Varma**  
*Cleveland Clinic, UK*

**IS/ICE-JHRS3-2**     **ISE RIJLANT LECTURE: ECG INTERPRETATION OF PATIENTS WITH LBB PACING. HOW FAR CAN WE GO?**

**Yochai Birnbaum**  
*Baylor College of Medicine, USA*

**IS/ICE-JHRS Session 4**

**APPLICATION OF AI IN MANAGEMENT OF ARRHYTHMIAS AND CARDIAC DISORDERS**

14 : 00 ~ 15 : 00

Chair **Constantinos Bakogiannis** (*Aristotle University of Thessaloniki, Greece*)  
**Ichiro Sakuma** (*The University of Tokyo, Japan*)

**IS/ICE-JHRS4-1**     **IS AI BASED AUTOMATED ECG INTERPRETATION TOO NONSPECIFIC FOR ROUTINE USE?**

**Peter W. Macfarlane**  
*University of Glasgow, Scotland, Scotland, UK*

**IS/ICE-JHRS4-2**     **USE OF AI IN EVALUATING PATIENTS WITH SYNCOPE**

**Samuel L. Johnston**  
*University of Iowa Hospitals & Clinics, USA*

**IS/ICE-JHRS4-3**     **APPLICATION OF AI IN DIAGNOSIS AND TREATMENT OF CARDIAC ARRHYTHMIA**

**Shih-Ann Chen**  
*National Yang Ming University / Taipei Veterans General Hospital, Taiwan*

**IS/ICE-JHRS4-4**     **ARTIFICIAL INTELLIGENCE TO IMPROVE PROCEDURAL SAFETY OF ATRIOVENTRICULAR NODAL RE-ENTRANT TACHYCARDIA ABLATION**

**Chin Pang Chan, Tsz Kin Tam**  
*Prince of Wales Hospital, The Chinese University of Hong Kong, Hong Kong*

## IS/ICE-JHRS Session 5

### ICE-JHRS JOINT SESSION : INTERPRETATION OF 12-LEAD ECG IN PATIENTS WITH ARRHYTHMIAS OR CARDIAC DISORDERS

15 : 10 ~ 16 : 10

Chair Takao Katoh (*Clinic of Tobu Railway Co. Ltd., Japan/Nippon Medical School, Japan*)  
Kaoru Sugi (*Odawara Cardiovascular Hospital, Japan*)

#### IS/ICE-JHRS5-1 HOW USEFUL IS THE 12-LEAD ECG FOR PREDICTION OF AF IN 2022?

Vassilios Vassilikos  
*Aristotle University of Thessalonik, Greece*

#### IS/ICE-JHRS5-2 AI-POWERED DETECTION OF OCCLUSION MYOCARDIAL INFARCTION USING 12-LEAD ECGS

H. Pendell Meyers  
*Carolinas Medical Center, USA*

#### IS/ICE-JHRS5-3 ECG IN PULMONARY ARTERIAL HYPERTENSION (PAH)

Małgorzata Kurpesa  
*Medical University of Lodz, Poland*

#### IS/ICE-JHRS5-4 AGEH: A FULLY AUTOMATED APPROACH FOR GLOBAL ELECTRICAL HETEROGENEITY MEASUREMENTS

Jafar Pourbemany<sup>1,2</sup>, Larisa G Tereshchenko<sup>1</sup>  
<sup>1</sup>*Department of Quantitative Health Sciences, Cleveland Clinic, Cleveland, OH, USA,*  
<sup>2</sup>*Department of Electrical Engineering and Computer Science, Cleveland State University, Cleveland, OH, USA*

## IS/ICE-JHRS Session 6

### BASIC APPROACHES FOR UNDERSTANDING OF ARRHYTHMIA GENESIS

16 : 30 ~ 17 : 30

Chair Tetsushi Furukawa (*Tokyo Medical and Dental University, Japan*)  
Atsushi Sugiyama (*Toho University, Japan*)

#### IS/ICE-JHRS6-1 ZFH3 KNOCKDOWN INCREASES ATRIAL ARRHYTHMOGENESIS VIA DYSREGULATED MITOCHONDRIAL METABOLISM AND ELECTRICAL REMODELING

Yi-Jen Chen  
*Taipei Medical University, Taiwan*

#### IS/ICE-JHRS6-2 PYRUVATE RESTORES B-ADRENERGIC SENSITIVITY OF L-TYPE CA<sup>2+</sup> CHANNELS IN FAILING RAT HEART: ROLE OF PROTEIN PHOSPHATASE

Zheng Mingqi  
*The First Hospital of Hebei Medical University, China*

#### IS/ICE-JHRS6-3 PHARMACOLOGICAL ACTIVATION OF ESTROGENIC RECEPTOR G PROTEIN-COUPLED RECEPTOR 30 ATTENUATES ANGIOTENSIN II-INDUCED ATRIAL FIBROSIS IN OVARIECTOMIZED MICE BY MODULATING TGF-B1/SMAD PATHWAY

Liu Gang  
*The First Hospital of Hebei Medical University, China*

#### IS/ICE-JHRS6-4 SECRETOME PROFILE MODIFICATION OF HUMAN EPICARDIAL ADIPOSE TISSUE COULD BE A PROMISING THERAPEUTIC OPTION IN SUPPRESSION OF PATHOGENESIS OF ATRIAL FIBRILLATION

Hidekazu Kondo<sup>1</sup>, Masayuki Takano<sup>1</sup>, Taisuke Harada<sup>1</sup>, Hirochika Yamasaki<sup>1</sup>, Masaki Takahashi<sup>1</sup>, Ichitaro Abe<sup>1</sup>, Yasushi Teshima<sup>1</sup>, Hidenori Sako<sup>2</sup>, Hirofumi Anai<sup>1</sup>, Shinji Miyamoto<sup>1</sup>, Naohiko Takahashi<sup>1</sup>  
<sup>1</sup>*Oita University, Japan,* <sup>2</sup>*Oita Oka Hospital, Japan*

## July 6 (Thu.) Room 8

### IS/ICE-JHRS Session 7

#### MANAGEMENT AND APPROACHES TO ARRHYTHMIAS IN CONGENITAL/ORGANIC HEART DISEASE

8 : 30 ~ 9 : 30

Chair Shih-Ann Chen (*National Yang Ming University, Taiwan/Taipei Veterans General Hospital, Taiwan*)  
Kazutaka Aonuma (*Mito Saiseikai General Hospital, Japan*)

#### IS/ICE-JHRS7-1 APPROACH TO ARRHYTHMIAS IN ADULT CONGENITAL HEART DISEASE

Parvin C. Dorostkar  
*Louisiana State University, USA*

#### IS/ICE-JHRS7-2 IMPACT OF LETHAL VENTRICULAR TACHYARRHYTHMIAS IN PATIENTS WITH CONGENITAL HEART DISEASE

Satoshi Kawada, Hiroshi Morita, Tomofumi Mizuno, Takuro Masuda, Akira Ueoka, Saori Asada, Masakazu Miyamoto, Norihisa To, Koji Nakagawa, Nobuhiro Nishii, Hiroshi Ito  
*Okayama University Graduate School of Medicine, Japan*

#### IS/ICE-JHRS7-3 MID-TERM RESULTS OF CATHETER ABLATION FOR ATRIAL TACHYARRHYTHMIA IN ADULT CONGENITAL HEART DISEASE

Yu Matsumura  
*Sakakibara Heart Institute, Japan*

#### IS/ICE-JHRS7-4 A NEW SCORING SYSTEM FOR PREDICTING VENTRICULAR ARRHYTHMIA RISK IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION

Ling Sun<sup>1</sup>, Han Bing<sup>2</sup>, Wang Yu<sup>1</sup>, Zhu Wenwu<sup>2</sup>, Jiang Jianguang<sup>1</sup>, Zou Ailin<sup>1</sup>, Chi Boyu<sup>1</sup>, Mao Lipeng<sup>1</sup>, Ji Yuan<sup>1</sup>, Wang Qingjie<sup>1</sup>, Tang Liming<sup>1</sup>  
<sup>1</sup>Changzhou No. 2 People's Hospital, China, <sup>2</sup>Xuzhou Central Hospital, Xuzhou Clinical School of Nanjing Medical University, China

### EHRA-JHRS Joint Symposium

#### WHAT TO DO AFTER AF DIAGNOSIS?

9 : 40 ~ 10 : 50

Chair Jose.L Merino (*University Hospital La Paz, Spain*)  
Wataru Shimizu (*Nippon Medical School, Japan*)

#### EHRA-JHRS1 [Keynote Lecture] AF ABLATION, GUIDELINE IN PRACTICE

Jose L. Merino  
*La Paz University Hospital, Spain*

#### EHRA-JHRS2 CATHETER ABLATION FOR ASYMPTOMATIC AF PATIENTS PRO

Andreu Porta-Sanchez  
*Hospital Clinic of Barcelona, Spain*

#### EHRA-JHRS3 CATHETER ABLATION FOR ASYMPTOMATIC AF PATIENTS CON

Yasuo Okumura  
*Nihon University, Japan*

#### EHRA-JHRS4 CATHETER ABLATION DIRECTLY AFTER AF DIAGNOSIS CON

Jose L. Merino  
*La Paz University Hospital, Spain*

**July 6 (Thu.) Room 9****IS/ICE-JHRS Session 8****CATHETER ABLATION FOR TACHYARRHYTHMIAS**

9 : 50 ~ 10 : 50

Chair Mahito Noro (Odawara Cardiovascular Hospital, Japan)  
Takeshi Kitamura (Ageo General Central Hospital, Japan)

- IS/ICE-JHRS8-1 LONG-TERM FOLLOW-UP OF ASYMPTOMATIC SEVERE PV STENOSIS AFTER CATHETER ABLATION OF ATRIAL FIBRILLATION**  
Michifumi Tokuda<sup>1,2</sup>, Seigo Yamashita<sup>2</sup>, Satoko Shiomi<sup>2</sup>, Ryutaro Sakurai<sup>1</sup>, Hidenori Sato<sup>1</sup>, Hirotsuna Oseto<sup>2</sup>, Kenichi Tokutake<sup>2</sup>, Mika Kato<sup>2</sup>, Michihiro Yoshimura<sup>2</sup>, Teichi Yamane<sup>2</sup>  
<sup>1</sup>Jikei Katsushika Medical Center, Japan, <sup>2</sup>The Jikei University School of Medicine, Japan
- IS/ICE-JHRS8-2 IMPORTANCE OF DETAILED CORONARY VENOUS SYSTEM ANATOMY IN ABLATING CHALLENGING CASES OF IDIOPATHIC OUTFLOW TRACT VENTRICULAR ARRHYTHMIA**  
Keita Miki, Koji Fukuda, Michinori Hirano, Koichi Sato, Mariko Shinozaki, Shohei Ikeda, Morihiko Takeda, Nobuyuki Shiba  
*International University of Health and Welfare, Japan*
- IS/ICE-JHRS8-3 PROGNOSTIC STUDY OF CATHETER ABLATION CASES IN NAGANO PREFECTURE, JAPAN**  
Toshinori Komatsu, Hiroaki Tabata, Hideki Kobayashi, Takahiro Okano, Ayako Okada, Koichiro Kuwahara  
*Shinshu University, Japan*
- IS/ICE-JHRS8-4 CAN LOW-POWER SHORT-DURATION RADIOFREQUENCY ABLATION CONTROL NON-PAROXYSMAL ATRIAL FIBRILLATION ROTORS?: CLINICAL OBSERVATIONS WITH ExTRa MAPPING AND AN IN SILICO STUDY**  
Takashi Ashihara<sup>1</sup>, Tomoya Ozawa<sup>1</sup>, Shin Inada<sup>3</sup>, Ryo Haraguchi<sup>2</sup>, Kazuo Nakazawa<sup>3</sup>, Yoshihisa Sugimoto<sup>1</sup>, Yoshihisa Nakagawa<sup>1</sup>  
<sup>1</sup>Shiga University of Medical Science, Japan, <sup>2</sup>University of Hyogo Graduate School of Information Science, Japan, <sup>3</sup>Morinomiya University of Medical Sciences, Japan

## IS/ICE-JHRS Session 9

### WSA-ICE-JHRS JOINT SESSION : MO HYPOTENSION, OR SYNCOPE

11 : 00 ~ 12 : 00

Chair Youichi Kobayashi (*Showa University, Japan*)

Haruhiko Abe (*University of Occupational and Environmental Health, Japan*)

#### IS/ICE-JHRS9-1 ORTHOSTATIC HYPOTENSION: UNDERSTANDING THE CLINICAL SUBTYPES

David.G Benditt

*University of Minnesota Medical School, USA*

#### IS/ICE-JHRS9-2 CLINICAL MANAGEMENT OF PATIENT WITH REFLEX SYNCOPE (TENTATIVE)

Ritsuko Kohno

*University of Occupational and Environmental Health, Japan*

#### IS/ICE-JHRS9-3 POSTURAL ORTHOSTATIC TACHYCARDIA SYNDROME - THE LATEST TOPIC

Brian Olshansky

*Iowa City-VA Medical Center, USA*

#### IS/ICE-JHRS9-4 CLINICAL MANAGEMENT OF PATIENT WITH REFLEX SYNCOPE (TENTATIVE)

Kengo Kusano

*National Cerebral and Cardiovascular Center, Japan*

## IS/ICE-JHRS Session 10

### MANAGEMENT OF PATIENTS SUFFERED FROM VENTRICULAR TACHYARRHYTHMIAS

14 : 00 ~ 15 : 00

Chair H.Pendel Meyers (*Carolinas Medical Center, Department of Emergency Medicine, USA*)

Takashi Noda (*Tohoku University, Japan*)

#### IS/ICE-JHRS10-1 VF DURING 48 HR OF STEMI IS NOT AN INDICATION FOR ICD - REALLY?

Pyotr G. Platonov

*Lund University, Sweden*

#### IS/ICE-JHRS10-2 ELECTRICAL AND STRUCTURAL INSIGHTS INTO RIGHT VENTRICULAR OUTFLOW TRACT ARRHYTHMOGENESIS

Yen-Yu Lu

*Sijhih Cathay General Hospital, Taiwan*

#### IS/ICE-JHRS10-3 ISTHMUS BOUNDARY OF VENTRICULAR TACHYCARDIA CIRCUIT AND LINE OF CONDUCTION BLOCK DETECTED BY DIFFERENTIAL PACING

Takuro Nishimura

*Tokyo Medical and Dental University, Japan*

#### IS/ICE-JHRS10-4 DEACTIVATION OF IMPLANTABLE CARDIOVERTER-DEFIBRILLATORS AT DISTANCE FOR THE DIGNITY OF DYING (THE 4D STUDY)

Bryce Alexander, Wesseem Osman, Melissa Tso, Melanie Foisy, Hoshiar Abdollah, Sanoj Chacko, Andres Enriquez, Chris Simpson, Damian Redfearn, Adrian Baranchuk

*Queen's University, Canada*

## IS/ICE-JHRS Session 11

### MANAGEMENT OF INHERITED ARRHYTHMIA SYNDROMES

15 : 10 ~ 16 : 10

Chair Elena V. Zaklyazminskaya (*Petrovsky National Research Centre of Surgery, Russian Federation*)  
Naomasa Makita (*Sapporo Teishinkai Hospital, Japan*)

#### IS/ICE-JHRS11-1 MANAGEMENT OF INHERITED ARRHYTHMIA SYNDROMES (TENTATIVE)

Wataru Shimizu  
*Nippon Medical School, Japan*

#### IS/ICE-JHRS11-2 EFFECT OF EXERCISE IN PATIENTS WITH INHERITED ARRHYTHMIAS

Yongkeun Cho  
*Kyungpook National University Hospital, Republic of Korea*

#### IS/ICE-JHRS11-3 CARDIAC EVENTS IN PATIENTS WITH TYPE 3 LONG QT SYNDROME AND MUTATION OF SCN5A-E1784K

Hiroyuki Kamada<sup>1</sup>, Takeshi Aiba<sup>2</sup>, Yuichiro Miyazaki<sup>2</sup>, Akinori Wakamiya<sup>2</sup>, Nobuhiko Ueda<sup>2</sup>,  
Kenzaburo Nakajima<sup>2</sup>, Tsukasa Kamakura<sup>2</sup>, Mitsuru Wada<sup>2</sup>, Kohei Ishibashi<sup>2</sup>, Yuko Inoue<sup>2</sup>,  
Koji Miyamoto<sup>2</sup>, Satoshi Nagase<sup>2</sup>, Mitsuru Oishi<sup>1</sup>, Kengo Kusano<sup>2</sup>  
<sup>1</sup>Kagoshima University, Japan, <sup>2</sup>National Cerebral and Cardiovascular Center, Japan

#### IS/ICE-JHRS11-4 MANAGEMENT OF J WAVE SYNDROME (TENTATIVE)

Naohiko Takahashi  
*Oita University, Japan*

## IS/ICE-JHRS Session 12

### MANAGEMENT OR PREDICTION OF CARDIAC ARRHYTHMIAS/DEATH

16 : 20 ~ 17 : 20

Chair Polychronis Dilaveris (*1st University Department of Cardiology, Hippokraton Hospita, Greece*)  
Akihiko Shimizu (*Ube-kohsan Central Hospital, Japan*)

#### IS/ICE-JHRS12-1 IMPACT OF OVERTRAINING ON DEVELOPMENT OF ARRHYTHMIAS IN ATHLETES

Iwona Cygankiewicz  
*Medical University of Lodz, Poland*

#### IS/ICE-JHRS12-2 NONINVASIVE RISK MARKERS FOR STRATIFYING PATIENTS AT RISK IN CKD PATIENTS: JANIES-CKD

Kenichi Hashimoto  
*National Defense Medical College, Japan*

#### IS/ICE-JHRS12-3 CAUSES OF IN-HOSPITAL CARDIAC ARREST AND THEIR PROGNOSTIC IMPLICATIONS

Cho Min Soo, Joong Min Lee, Nam Gi-byoung, Cha Myung-jin, Kim Jun, Choi Kee-joon  
*Asan Medical Center, Ulsan University College of Medicine, Korea*

#### IS/ICE-JHRS12-4 THE USE OF DIGITAL PLATFORMS IN THE MANAGEMENT OF CARDIAC ARRHYTHMIAS

Constantinos Bakogiannis  
*Aristotle University of Thessaloniki, Greece*



# July 7 (Fri.) Room 7

## IS/ICE-JHRS Session 13

### ECG INTERPRETATION IN PATIENTS WITH CONDUCTION DISTURBANCES

8 : 30 ~ 9 : 30

Chair Mitsuhiro Nishizaki (*Odawara Cardiovascular Hospital, Japan*)  
Eiichi Watanabe (*Fujita Health University Bantane Hospital, Japan*)

#### IS/ICE-JHRS13-1 ECG INTERPRETATION OF BBB OF PATIENTS WITH ACUTE MYOCARDIAL INFARCTION

Peter W. Macfarlane  
*University of Glasgow, Scotland, Scotland, UK*

#### IS/ICE-JHRS13-2 SIGNIFICANCE OF RBBB IN PATIENTS PRESENTING WITH CHEST PAIN TO THE EMERGENCY DEPARTMENT

Yochai Birnbaum  
*Baylor College of Medicine, USA*

#### IS/ICE-JHRS13-3 MANAGEMENT OF PATIENTS WITH UNEXPLAINED SYNCOPE AND BUNDLE BRANCH BLOCK: PREDICTIVE FACTORS OF RECURRENT SYNCOPE

Ioannis Doundoulakis<sup>1</sup>, Dimitrios Tsiachris<sup>3</sup>, Athanasios Kordalis<sup>2</sup>, Stergios Soulaïdopoulos<sup>2</sup>, Petros Arsenos<sup>2</sup>, Anastasia Xintarakou<sup>2</sup>, Leonidas Koliastasis<sup>2</sup>, Konstantinos Tsioufis<sup>2</sup>, Konstantinos A Gatzoulis<sup>2</sup>  
<sup>1</sup>Heart Rhythm Management Centre, Postgraduate Program in Cardiac Electrophysiology and Pacing, Universitair Ziekenhuis Brussel-Vrije Universiteit Brussel, Belgium, <sup>2</sup>National and Kapodistrian University, Hippokration Hospital, Greece, <sup>3</sup>Athens Heart Center, Athens Medical Center, Greece

#### IS/ICE-JHRS13-4 NEW PATTERN OF ATYPICAL ADVANCED INTERATRIAL BLOCK

Wesseem Osman<sup>1</sup>, Cengiz Burak<sup>1</sup>, Tiago Luiz Silvestrini<sup>2</sup>, Andres F Miranda-arboleda<sup>1</sup>, Maqsood Alam<sup>1</sup>, Rafael De March Ronsoni<sup>2</sup>, Saulo Pereira Da Costa Fontoura<sup>2</sup>, Antonio Bayes De Luna<sup>3</sup>, Adrian Baranchuk<sup>1</sup>  
<sup>1</sup>Queen's University, Canada, <sup>2</sup>Instituto de Ritmologia Cardíaca, Brazil, <sup>3</sup>University of Barcelona, Spain

## IS/ICE-JHRS Session 14

### ARRHYTHMIA MANAGEMENT USING VARIOUS FUNCTIONS OF CIEDS

9 : 50 ~ 10 : 50

Chair Takashi Nitta (*Hanyu General Hospital, Japan*)  
Toshiyuki Ishikawa (*Yokohama City University, Japan*)

#### IS/ICE-JHRS14-1 ALERT DRIVEN REMOTE MONITORING AS THE FUTURE PARADIGM OF CIED MANAGEMENT

Niraj Varma  
*Cleveland Clinic, UK*

#### IS/ICE-JHRS14-2 IMPLEMENTATION OF REMOTE MONITORING OF CIEDS IN REAL LIFE

Emanuela T. Locati  
*IRCCS Policlinico San Donato, Italy*

#### IS/ICE-JHRS14-3 IMPACT OF HEART FAILURE DRUG THERAPY IN PATIENTS WITH CRT INDICATION: DOES MAXIMIZED MEDICAL THERAPY SUBSTITUTE TO CRT?

Kazutaka Aonuma<sup>1</sup>, Kenji Ando<sup>2</sup>, Hiro Yamasaki<sup>3</sup>, Takeshi Mitsuhashi<sup>4</sup>, Takanori Ikeda<sup>5</sup>, Toyooki Murohara<sup>6</sup>, Nobuhiro Nishii<sup>7</sup>, Akihiko Nogami<sup>3</sup>, Yasushi Sakata<sup>8</sup>, Torri Schwartz<sup>9</sup>, Torsten Kayser<sup>9</sup>, Wataru Shimizu<sup>10</sup>  
<sup>1</sup>Mito Saiseikai General Hospital, Japan, <sup>2</sup>Kokura Memorial Hospital, Japan, <sup>3</sup>University of Tsukuba, Japan, <sup>4</sup>Hoshi General Hospital, Japan, <sup>5</sup>Toho University, Japan, <sup>6</sup>Nagoya University, Japan, <sup>7</sup>Okayama University, Japan, <sup>8</sup>Osaka University, Japan, <sup>9</sup>Boston Scientific Corporation, <sup>10</sup>Nippon Medical School, Japan



## IS/ICE-JHRS14-4 DEACTIVATION OF ICDS: WHEN, WHY, HOW

Adrian Baranchuk

Queen's University School of Medicine, Canada

## IS/ICE-JHRS Session 15

### ICE BEST ABSTRACT AWARD SESSION

11 : 00 ~ 12 : 10

Chair Bülent Görenek (*Eskisehir Osmangazi University, Turkey*)

Takanori Ikeda (*Toho University Graduate of Medicine, Japan*)

Panel of Judges ISHNE BOT and ISE Council Members

## IS/ICE-JHRS15-1 AN ELECTROPHYSIOLOGICAL SUBSTRATE OF COVID-19

Jafar Pourbemany<sup>1,2</sup>, Larisa G Tereshchenko<sup>1</sup>

<sup>1</sup>Cleveland Clinic, USA, <sup>2</sup>Cleveland State University, USA

## IS/ICE-JHRS15-2 T-peak TO T-end INTERVAL TO CORRECTED QT INTERVAL RATIO AS AN EVALUATOR OF VENTRICULAR SYMPATHOEXCITATION

Taro Temma, Masaya Watanabe, Jiro Koya, Kotaro Nishino, Daishiro Tatsuta, Hiroyuki Natsui, Takuya Koizumi, Takahide Kadosaka, Motoki Nakao, Taro Koya, Toshihisa Anzai

Hokkaido University, Japan

## IS/ICE-JHRS15-3 RISK ASSESSMENT OF POST-MYOCARDIAL INFARCTION PATIENTS WITH PRESERVED EJECTION FRACTION USING 45-MINUTE SHORT RESTING HOLTER ECG RECORDINGS

Konstantinos Triantafyllou<sup>1</sup>, Nikolaos Fragakis<sup>1</sup>, Konstantinos A Gatzoulis<sup>2</sup>, Petros Arsenos<sup>2</sup>, Antonios Antoniadis<sup>1</sup>, Georgios Giannopoulos<sup>1</sup>, Konstantinos Trachanas<sup>2</sup>, Christos Konstantinos Antoniou<sup>2</sup>, Konstantinos Tsimos<sup>2</sup>, Dimitrios Tsiachris<sup>2</sup>, Magdalini Meletidou<sup>1</sup>, Vassilios Vassilikos<sup>1</sup>

<sup>1</sup>Hippokraton General Hospital, Aristotle University of Thessaloniki, Greece, <sup>2</sup>Hippokraton Hospital, National and Kapodistrian University of Athens, Greece

## IS/ICE-JHRS15-4 AUTOMATED ELECTROCARDIOGRAPHIC-BASED MACHINE LEARNING MODELS IN PREDICTION OF CARDIOVASCULAR EVENTS IN HEART FAILURE PATIENTS

Quinncy Lee<sup>1</sup>, Fung Ping Leung<sup>2</sup>, Wing Tak Wong<sup>2</sup>, Sharen Lee<sup>6</sup>, Jiandong Zhou<sup>7</sup>, Oscar Hou In Chou<sup>3</sup>, Bernard Man Yung Cheung<sup>3</sup>, Kecheng Chen<sup>4</sup>, Xiaoyu Tao<sup>5</sup>, Fengshi Jing<sup>8</sup>, Tianyu Gao<sup>3,9</sup>, Gary Tse<sup>6,10</sup>

<sup>1</sup>University of Aberdeen, United Kingdom, <sup>2</sup>State Key Laboratory of Agrobiotechnology, The Chinese University of Hong Kong, China, <sup>3</sup>Li Ka Shing Faculty of Medicine, University of Hong Kong, China, <sup>4</sup>City University of Hong Kong, China, <sup>5</sup>Zhuhai College of Science and Technology, China, <sup>6</sup>Cardiovascular Analytics Group, Hong Kong, China-UK Collaboration, <sup>7</sup>University of Oxford, United Kingdom, <sup>8</sup>Guangdong Second Provincial General Hospital, China, <sup>9</sup>The University of North Carolina at Chapel Hill Project- China, China, <sup>10</sup>Jinan University, China, <sup>10</sup>Second Hospital of Tianjin Medical University, China, Kent and Medway Medical School, Canterbury, Unit

## IS/ICE-JHRS15-5 THE USEFULNESS OF HIGH-RESOLUTION 24-HOUR ELECTROCARDIOGRAPHIC PARAMETERS IN PATIENTS WITH COVID-19 PNEUMONIA: COMPARISON WITH QTc

Motohiro Kimata<sup>1</sup>, Kenichi Hashimoto<sup>1</sup>, Yusuke Kawamura<sup>1</sup>, Naomi Harada<sup>1</sup>, Yuji Kasamaki<sup>2</sup>

<sup>1</sup>National Defence Medical College, Japan, <sup>2</sup>Kanazawa Medical University, Japan

Chair Jose L. Merino (*La Paz University Hospital, Spain*)  
Ken Okumura (*Saiseikai Kumamoto Hospital, Japan*)

**IS/ICE-JHRS16-1 SUITABLE APPROACHES TO IMPROVE THE OUTCOME OF AF ABLATION?**

Yi-Gang Li

*Xinhua Hospital-Shanghai Jiao Tong University, China*

**IS/ICE-JHRS16-2 ABLATION PROCEDURES CONSIDERING SUBSTRATE OF PERSISTENT AF**

Young-Hoon Kim

*Korea University, Republic of Korea*

**IS/ICE-JHRS16-3 ACCURACY OF 3D LEFT ATRIAL GEOMETRY CREATED USING CARTOSOUND FAM IN COMPARISON TO CT IMAGE REGISTRATION**

Yoshihide Takahashi<sup>1</sup>, Ko Akimoto<sup>1</sup>, Naoya Kikkoji<sup>1</sup>, Hironori Sato<sup>1</sup>, Koji Azegami<sup>1</sup>,  
Tetsuo Sasano<sup>2</sup>

<sup>1</sup>*Shin-yurigaoka General Hospital, Japan*, <sup>2</sup>*Tokyo Medical and Dental University, Japan*

**IS/ICE-JHRS16-4 ALTERNATE ABLATION STRATEGY IN PATIENTS WITH PERSISTENT AF (TENTATIVE)**

Andrea Natale

*Texas Cardiac Arrhythmia Institute at St. David's Medical Center, USA*

IS/ICE-JHRS Session 17

DETECTION OF AF AND FACTORS FOR ITS GENERATION

14 : 50 ~ 15 : 50

Chair Yoshifusa Aizawa (*Tachikawa Medical Center, Japan*)  
Yuji Nakazato (*Sakakibara Sapia Tower Clinic, Japan*)

**IS/ICE-JHRS17-1 SUBCLINICAL AND DEVICE DETECTED AF**

Bülent Görenek

*Eskisehir Osmangazi University, Turkey*

**IS/ICE-JHRS17-2 ROLE OF CERAMIDE IN OBESITY RELATED AF**

Yung-Kuo Lin

*Taipei Municipal Wanfang Hospital/Taipei Medical University, Taiwan*

**IS/ICE-JHRS17-3 ENDOTHELIAL-MESENCHYMAL TRANSITION IN AF**

Yung-Hsin Yeh

*Chang Gung University and Chang Gung Memorial Hospital, Taiwan*

**IS/ICE-JHRS17-4 ROLE OF THE RIGHT ATRIUM IN PERSISTENT AF**

Young-Hoon Kim

*Korea University, Republic of Korea*

## IS/ICE-JHRS Session 18

### ICE-APHRS JOINT SESSION : ARRHYTHMIC RISK MANAGEMENT IN INHERITED ARRHYTHMIA SYNDROMES

16 : 00 ~ 17 : 00

Chair Hui-Nam Pak (*Yonsei University Health System, Severance Cardiovascular Hospital, Republic of Korea*)  
Bompei Takase (*National Defense Medical College, Japan*)

#### IS/ICE-JHRS18-1 MULTI-PARAMETRIC MODELS FOR RISK STRATIFICATION IN BRUGADA SYNDROME

Gary Tse

*School of Nursing and Health Studies, Hong Kong Metropolitan University, China*

#### IS/ICE-JHRS18-2 ECG RISK STRATIFICATION IN BRUGADA SYNDROME PATIENTS

Hiroshi Morita

*Okayama University, Japan*

#### IS/ICE-JHRS18-3 MANAGEMENT OF ACQUIRED PATIENTS WITH LONG QT SYNDROME

Yongkeun Cho

*Kyungpook National University Hospital, Republic of Korea*

#### IS/ICE-JHRS18-4 RISK STRATIFICATION AND MANAGEMENT OF EARLY REPOLARIZATION SYNDROME (TENTATIVE)

Tetsuji Shinohara

*Oita University, Japan*

## IS/ICE-JHRS Session 19

### VARIOUS ROLES FOR GENERATION OR RECURRENCE OF ATRIAL ARRHYTHMIAS

17 : 20 ~ 18 : 20

Chair Andreu Porta-Sanchez (*Hospital Clinic of Barcelona, Spain*)  
Itsuro Morishima (*Ogaki Municipal Hospital, Japan*)

#### IS/ICE-JHRS19-1 ROLE OF EXTRA-PULMONARY VEIN TRIGGERS AS A MECHANISM OF AF RECURRENCE

Hui-Nam Pak

*Yonsei University Health System, Severance Cardiovascular Hospital, Republic of Korea*

#### IS/ICE-JHRS19-2 AF ABLATION COMBINED WITH LAA OCCLUSION - STATE OF THE ART

Yi-Gang Li

*Xinhua Hospital-Shanghai Jiao Tong University, China*

#### IS/ICE-JHRS19-3 HIGH-DENSITY GRID MAPPING OF MICRO-REENTRANT LEFT ATRIAL ARRHYTHMIAS

Kuo-Hung Lin

*Chian Medical University Hospital -Hsinchu, Taiwan*

#### IS/ICE-JHRS19-4 PREMATURE ATRIAL COMPLEXES AND ATRIAL FIBRILLATION: CAUSE OR CONSEQUENCE?

Satoshi Higuchi, Sungil Im, Ramkumar Venkateswaran, Chanhee Lee, Carol Stillson, Dwight Bibby, Theodore Abraham, Jeffrey Olgin, Edward Gerstenfeld

*University of California San Francisco, USA*

## July 7 (Fri.) Room 8

### HRS-JHRS Joint Symposium

#### CARDIAC RESYNCHRONIZATION THERAPY AND CONDUCTION SYSTEM PACING – IMPLICATIONS FOR CLINICAL PRACTICE FROM THE “2023 HRS/APHRS/LAHRs GUIDELINE ON CARDIAC PHYSIOLOGIC PACING FOR THE AVOIDANCE AND MITIGATION OF HEART FAILURE

8 : 30 ~ 9 : 40

Chair Niraj Varma (*Cleveland Clinic, UK*)  
Kenzo Hirao (*AOI Universal Hospital, Japan*)

#### HRS-JHRS1 CRT

Niraj Varma  
*Cleveland Clinic, UK*

#### HRS-JHRS2 CONDUCTION SYSTEM PACING

Mikhael El-Chami  
*Emory University Hospital, USA*

#### HRS-JHRS3 CRT

Yusuke Kondo  
*Chiba University Graduate School of Medicine, Japan*

#### HRS-JHRS4 CONDUCTION SYSTEM PACING

Toshiaki Sato  
*Kyorin University, Japan*

## July 7 (Fri.) Room 9

### IS/ICE-JHRS Session 20

#### GENETIC ASPECTS OR APPROACHES OF INHERITED ARRHYTHMIA SYNDROMES 8 : 30 ~ 9 : 30

Chair Adrian Baranchuk (*Queen's University School of Medicine, Canada*)  
Minoru Horie (*Shiga University of Medical Science, Japan*)

#### IS/ICE-JHRS20-1 ROLE OF RISK CALCULATORS IN INHERITED ARRHYTHMIC SYNDROME

Emanuela T. Locati  
*IRCCS Policlinico San Donato, Italy*

#### IS/ICE-JHRS20-2 GENETIC FINDINGS IN PATIENTS WITH ASYMPTOMATIC BRUGADA PATTERN

Elena V. Zaklyazminskaya  
*Petrovsky National Research Centre of Surgery, Russian Federation*

#### IS/ICE-JHRS20-3 ASYMPTOMATIC LQTS MUTATION CARRIERS WITH NORMAL QTC: DO WE KNOW THE RISKS?

Pyotr G. Platonov  
*Lund University, Sweden*

#### IS/ICE-JHRS20-4 CASCADE SCREENING FOR CPVT TYPE 1 AND EARLIER ONSET OF SYMPTOMS

Seiko Ohno  
*National Cerebral and Cardiovascular Center, Japan*

Chair Tetsunori Saikawa (*Oita Sanai Medical Center, Japan*)

Yuji Kasamaki (*Kanazawa Medical University Himi Municipal Hospital, Japan*)

**IS/ICE-JHRS21-1 ACCURATE DIGITAL ECG TOOLS FOR THE DETECTION OF AF IN POST-STROKE PATIENTS**

**Polychronis Dilaveris**

*1st University Department of Cardiology, Hippokraton Hospita, Greece*

**IS/ICE-JHRS21-2 HEART RATE SCORE - AN UPDATE ON THE LATEST DATA**

**Brian Olshansky**

*Iowa City-VA Medical Center, USA*

**IS/ICE-JHRS21-3 NEAR-FUTURE USE OF AT-HOME ECG WITH AI FUNCTION**

**Keitaro Senoo**

*Kyoto Prefectural University of Medicine, Japan*

**IS/ICE-JHRS21-4 ADVANCED AMBULATORY CARDIAC AND HEMODYNAMIC MONITORING SYSTEMS FOR EVALUATING SYNCOPE/ COLLAPSE PATIENTS**

**David G. Benditt**

*University of Minnesota Medical School, USA*

IS/ICE-JHRS Session 22

NONPHARMACOLOGICAL TREATMENT TO VENTRICULAR TACHYARRHYTHMIAS

14 : 50 ~ 15 : 50

Chair Andrea Natale (*Texas Cardiac Arrhythmia Institute at St. David's Medical Center, USA*)

Kazuo Matsumoto (*Higashimatsuyama Medical Association Hospital, Japan*)

**IS/ICE-JHRS22-1 ZERO-FLUOROSCOPY CATHETER ABLATION FOR OUTFLOW TRACT VENTRICULAR ARRHYTHMIAS**

**Kuo-Hung Lin**

*Chian Medical University Hospital -Hsinchu, Taiwan*

**IS/ICE-JHRS22-2 CORONARY VENOUS ETHANOL INFUSION FOR REFRACTORY VENTRICULAR ARRHYTHMIAS GUIDED BY OVER-THE-WIRE MICROELECTRODES CATHETER**

**Yasuhiro Shirai**

*NHO Disaster Medical Center, Japan*

**IS/ICE-JHRS22-3 VENTRICULAR ARRHYTHMIAS ARISING FROM THE PULMONARY ARTERY WITH PREFERENTIAL CONDUCTION: ECG CHARACTERISTICS AND VELOCITY OF PREFERENTIAL CONDUCTION**

**Hitoshi Hachiya, Naoyuki Miwa, Yoshikazu Sato, Satoshi Hara, Junichi Doi, Tadanori Nakata, Hidenori Hirano, Shigeki Kusa**

*Tsuchiura Kyodo General Hospital, Japan*

**IS/ICE-JHRS22-4 THE GAP OF ACTIVATED CLOTTING TIME RECOMMENDATION LEVEL BETWEEN LEFT ATRIAL APPENDAGE OCCLUSION AND ATRIAL FIBRILLATION ABLATION: IS IT NECESSARY TO CLOSE IT?**

**Kexin Wang, Weizhu Ju, Minglong Chen**

*The First Affiliated Hospital of Nanjing Medical University, China*

## July 8 (Sat.) Room 7

### IS/ICE-JHRS Session 23

#### ASSOCIATION WITH ARRHYTHMIAS OR SUDDEN DEATH IN VARIOUS CARDIAC DISORDERS

8 : 30 ~ 9 : 30

Chair Akihiko Nogami (*Tokyo Heart Rhythm Hospital, Japan*)  
Takeshi Mitsuhashi (*Hoshi General Hospital, Japan*)

#### IS/ICE-JHRS23-1 SUDDEN DEATH AND NEGLECTED TROPICAL DISEASES AFFECTING THE HEART

Adrian Baranchuk  
*Queen's University School of Medicine, Canada*

#### IS/ICE-JHRS23-2 CHARACTERISTICS OF PVCs THAT CAUSE CARDIOMYOPATHY

Samuel L. Johnston  
*University of Iowa Hospitals & Clinics, USA*

#### IS/ICE-JHRS23-3 CARDIAC ARRHYTHMIAS IN STEMI PATIENTS UNDERGOING PRIMARY PCI

Bülent Görenek  
*Eskisehir Osmangazi University, Turkey*

#### IS/ICE-JHRS23-4 CHARACTERISTICS OF ARRHYTHMIAS IN THE PEDIATRIC ICU

Parvin C. Dorostkar  
*Louisiana State University, USA*

9 : 40 ~

◆ Award Ceremony of ICE Best Abstract Award

◆ Photo Session

### IS/ICE-JHRS Session 24

#### APPROACHES FOR GENERATION/SUPPRESSION OF ARRHYTHMIAS

11 : 00 ~ 12 : 00

Chair Parvin C. Dorostkar (*Louisiana State University, USA*)  
Yoshinori Kobayashi (*Tokai University Hachioji Hospital, Japan*)

#### IS/ICE-JHRS24-1 DIABETES RELATED VENTRICULAR ARRHYTHMOGENESIS - THE ROLE OF ADVANCED GLYCATION END PRODUCTS

Yung-Kuo Lin  
*Taipei Municipal Wanfang Hospital/Taipei Medical University, Taiwan*

#### IS/ICE-JHRS24-2 Unrevealed

#### IS/ICE-JHRS24-3 MORPHOLOGICALLY ASYMMETRIC JUNCTIONS ALTER REFRACTORY PERIODS OF THE ACCESSORY PATHWAY IN THE WPW SYNDROME: A SIMULATION STUDY

Ryo Haraguchi<sup>1</sup>, Takashi Ashihara<sup>2</sup>, Takaaki Matsuyama<sup>3</sup>, Jun Yoshimoto<sup>4</sup>  
<sup>1</sup>University of Hyogo Graduate School of Information Science, Japan, <sup>2</sup>Shiga University of Medical Science, Japan, <sup>3</sup>Showa University, Japan, <sup>4</sup>Shizuoka Children's Hospital, Japan

#### IS/ICE-JHRS24-4 GENERATION OF IPS CELL-BASED PLATFORMS FOR ARRHYTHMIAS: FOCUSING ON MICROPHYSIOLOGICAL AND ANATOMICAL PROPERTIES OF THE HEARTS.

Jong-kook Lee  
*Osaka University Graduate School of Medicine, Japan*

## July 8 (Sat.) Room 9

IS/ICE-JHRS Session 25

INTERESTING TOPICS IN EP FIELD

8 : 30 ~ 9 : 30

Chair Yasushi Mukai (*Japanese Red Cross Fukuoka Hospital, Japan*)  
Shinsuke Miyazaki (*Tokyo Medical and Dental University, Japan*)

- IS/ICE-JHRS25-1 PHARMACOKINETICS AND BIODISTRIBUTION OF FLUORESCENT GOLD NANOCCLUSERS CONJUGATED WITH ALPHA-LIPOIC ACID**  
Chinghu Chung  
*MacKay Medical College, Taiwan*
- IS/ICE-JHRS25-2 THE FEASIBILITY AND POTENTIAL VALUE OF ARTIFICIAL INTELLIGENCE IN INTERPRETATION OF THE TREADMILL TEST**  
Yoo Ri Kim, Ki Hong Lee, Ki Seong Park, Ho-chun Song  
*Chonnam National Univerisy, Korea*
- IS/ICE-JHRS25-3 SUPRAVENTRICULAR TACHYCARDIA INVOLVING ANOMALOUS BYPASS TRACT FROM SVC-RA JUNCTION TO RV**  
Shufen Liang<sup>1</sup>, Julian Cheong Kiat Tay<sup>1</sup>, Loo Chin Wong<sup>2</sup>, Kah Leng Ho<sup>1</sup>, Chee Kiong Ching<sup>1</sup>  
<sup>1</sup>*National Heart Centre Singapore, Singapore, <sup>2</sup>Abbott Medical*
- IS/ICE-JHRS25-4 GENERAL ANESTHESIA ENHANCES LESION QUALITY CONTROL OF PULMONARY VEIN ISOLATION IN ATRIAL FIBRILLATION ABLATION**  
Kexin Wang, Minglo  
*The First Affiliated Hk*
- IS/ICE-JHRS25-5 Use of hemostatic powder to reduce pocket hematomas after implantations of cardiac implantable electronic devices**  
Yuko Matsui, Fumiaki Mori, Haruka Kikuchi, Kensuke Kikuchi, Ryoza Maeda, Kei Tsukamoto, Takashi Saito  
*Yokohama Medical Center, Yokohama, Japan*