MISSION

Constantly Challenging and Being Fully Committed to Protect a Healthy Heart Rhythm

VISION

A Leading Academic Society to Advance Healthcare Through Innovative Research, Education, and Public Awareness Improvement for Overcoming Arrhythmia

“심장의 건강한 리듬을 지키기 위해 끊임없이 도전하고 혁신킨다.”

부정맥 극복을 위한 창의적 연구, 인재육성 및 국민인식개선을 통해 의료의 선진화를 주도해 나가는 학회
### SPONSORS

#### DIAMOND
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- DAEWOONG
- Bristol Myers Squibb

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- VIATRS
- GE HealthCare

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Dear Friends and Colleagues,

It is our great honor to invite you to the upcoming KHRS 2023: The 15th Annual Scientific Session of the Korean Heart Rhythm Society, which will be held from June 23 (Fri.) to 24 (Sat.), 2023 in Seoul, Korea.

Unlike the recent scientific sessions held online due to the unprecedented COVID-19 pandemic, this year’s KHRS will feature a diverse array of programs in an attempt to promote knowledge exchange. In particular, KHRS 2023 will bring together globally known arrhythmia experts in each field to share and discuss the latest knowledge and trends, creating a venue for academic exchange to provide an opportunity for application and development.

For example, we have been putting together “International society Joint Session,” which is about networking with Taiwan, Japan and Hong Kong, “The World EP Forum at Seoul,” which is about discussing issues of arrhythmia with invited leaders of HRS and EHRA, and “Noninvasive, Joint with KSHNE” to revitalize a research society. Besides, “ECG Golden Bell” will be coming back after being suspended due to COVID-19 so that knowledge could be shared while solving problems.

Moreover, “EKG Educational Course” and “Arrhythmia Review Course” will be helpful for students, residents, fellows, practitioners and arrhythmia technical experts. Additionally, “Allied Professionals Session” will be held specifically for arrhythmia technical experts and “VIA Competition” will take place in order for you to listen to research by young promising researchers.

We look forward to your active participation in the upcoming 15th scientific session, which we believe will be a key factor in hosting a successful conference. Lastly, we sincerely hope that KHRS 2023 will provide a platform for many researchers to promote active academic exchange and friendship.
# INTERNATIONAL FACULTY MEMBERS

<table>
<thead>
<tr>
<th>Country</th>
<th>Members</th>
</tr>
</thead>
</table>
| **Australia** | Ben Freedman, University of Sydney  
Christopher Semsarian, University of Sydney  
Mitchell Cowan, Cardiac Physiology in Practice  
Peter Kistler, Heart Centre at the Alfred Hospital  
Prashanthan Sanders, University of Adelaide |
| **Belgium**  | Tom De Potter, Cardiovascular Center, OLV Hospital Aalst  
Minglong Chen, The First Affiliated Hospital of Nanjing Medical University |
| **China**    | Dan Hu, Renmin Hospital of Wuhan University  
Minglong Chen, The First Affiliated Hospital of Nanjing Medical University  
Jacob Teft-Hansen, Copenhagen University Hospital, Rigshospitalet  
Peter Kistler, Heart Centre at the Alfred Hospital  
Prashanthan Sanders, University of Adelaide |
| **Denmark**  | Jacob Teft-Hansen, Copenhagen University Hospital, Rigshospitalet  
Stylianos Tzeis, Mitera Hospital |
| **Greece**   | Chu-Pak Lau, Queen Mary Hospital, The University of Hong Kong  
Gary Tse, Hong Kong Metropolitan University  
Hung-Fat Tse, The University of Hong Kong  
Joseph YS Chan, Prince of Wales Hospital, Chinese University of Hong Kong |
| **Hong Kong** | Anoop Gupta, Epic Hospital, Ahmedabad  
Aparna Jaswal, Fortis Escorts Heart Institute  
Deepak Padmanabhan, Sri Jayadeva Institute of Cardiac Sciences and Research  
K U Narayaraj, Amrita Institute of Medical Sciences and Research Center  
Rakesh Yadav, All India Institute of Medical Science, New Delhi |
| **India**    | Akhiko Nomoto, Tokyo Arhythmia Hospital  
Hiro Yamasaki, University of Tsukuba  
Kaoru Okishige, Syowa University, School of Medicine  
Miyako Igarashi, University of Tsukuba  
Naokata Sumitomo, Saitama Medical University International Medical Center  
Seiko Ohno, National Cerebral and Cardiovascular Center  
Shingo Sasaki, Hiroshi University Graduate School of Medicine  
Shinsuke Miyazaki, Tokyo Medical and Dental University  
Shiro Nakahara, Dokyo Medical University Saitama Medical Center  
Takanori Ikeda, Toho University Faculty of Medicine  
Takanori Yamaguchi, Saga University  
Tetsuo Sasaki, Tokyo Medical and Dental University  
Tsukasa Kamakura, National Cerebral and Cardiovascular Center  
Wataru Shimizu, Nippon Medical School |
| **Indonesia**| Reynold Agustinus, Indonesian Heart Rhythm Society |
| **Japan**    | Akhiko Nomoto, Tokyo Arhythmia Hospital  
Hiro Yamasaki, University of Tsukuba  
Kaoru Okishige, Syowa University, School of Medicine  
Miyako Igarashi, University of Tsukuba  
Naokata Sumitomo, Saitama Medical University International Medical Center  
Seiko Ohno, National Cerebral and Cardiovascular Center  
Shingo Sasaki, Hiroshi University Graduate School of Medicine  
Shinsuke Miyazaki, Tokyo Medical and Dental University  
Shiro Nakahara, Dokyo Medical University Saitama Medical Center  
Takanori Ikeda, Toho University Faculty of Medicine  
Takanori Yamaguchi, Saga University  
Tetsuo Sasaki, Tokyo Medical and Dental University  
Tsukasa Kamakura, National Cerebral and Cardiovascular Center  
Wataru Shimizu, Nippon Medical School |
| **Netherlands** | Connie Bezzina, Amsterdam University Medical Center |
| **Singapore** | Chi Keong Ching, National Heart Centre Singapore  
Tee Joo Yeo, National University Heart Centre Singapore  
José Luis Merino, La Paz University Hospital |
| **Spain**    | Chia-Ti Tsai, National Taiwan University College of Medicine  
Chin-Yu Lin, Taipei Veterans General Hospital  
Fa-Po Chung, Taipei Veterans General Hospital  
Hsuan-Ming Tsao, National Yang Ming Chiao Tung University Hospital  
Li-Wei Lo, Taipei Veterans General Hospital  
Yu-Cheng Hsieh, Taichung Veterans General Hospital  
Yung-Lung Chen, Kaohsiung Chang Gung Memorial Hospital |
| **Taiwan**   | Koontaew Nademanee, Center of Excellence Arrhythmia Research Chulalongkorn University  
Tachapong Ngarmukos, Medicine Ramathibodi Hospital, Mahidol University |
| **United Kingdom** | Elijah Behe, St George’s University of London  
Gherardo Finocchiaro, St George’s University of London  
Gregory Lip, University of Liverpool  
Leonie Wong, Royal Brompton Hospital  
Raghav Bhattacharjee, St George’s University of London  
Bruce Wilkoff, Cleveland Clinic  
Chun Hwang, KHRS  
Edward Gerstenfeld, UCSF  
Jodie Hurwitz, North Texas Heart Center  
Miguel Valderrabano, Houston Methodist Hospital  
Mitchell Cohen, Inova L.J. Murphy Children’s Hospital  
Moussa Mansour, Massachusetts General Hospital  
Natalia Trayanova, Johns Hopkins University  
Oussama Wazni, Cleveland Clinic  
Robert Giugliano, Brigham and Women’s Hospital  
Sung Jin Park, Emory University and Georgia Tech  
Younghoon Kwon, University of Washington |
| **United States** | Connie Bezzina, Amsterdam University Medical Center  
Chi Keong Ching, National Heart Centre Singapore  
José Luis Merino, La Paz University Hospital  
José Luis Merino, La Paz University Hospital  
Chia-Ti Tsai, National Taiwan University College of Medicine  
Chin-Yu Lin, Taipei Veterans General Hospital  
Fa-Po Chung, Taipei Veterans General Hospital  
Hsuan-Ming Tsao, National Yang Ming Chiao Tung University Hospital  
Li-Wei Lo, Taipei Veterans General Hospital  
Yu-Cheng Hsieh, Taichung Veterans General Hospital  
Yung-Lung Chen, Kaohsiung Chang Gung Memorial Hospital  
Koontaew Nademanee, Center of Excellence Arrhythmia Research Chulalongkorn University  
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Moussa Mansour, Massachusetts General Hospital  
Natalia Trayanova, Johns Hopkins University  
Oussama Wazni, Cleveland Clinic  
Robert Giugliano, Brigham and Women’s Hospital  
Sung Jin Park, Emory University and Georgia Tech  
Younghoon Kwon, University of Washington |
EXHIBITOR LIST

B2 | Vista Hall Lobby

B1 | Grand Hall Foyer

Exhibition

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<td>Boehringer Ingelheim</td>
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<td>BOSTON SCIENTIFIC KOREA CO., LTD.</td>
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<td>Daiichi-sankyo &amp; Daewoong</td>
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<td>DASAN</td>
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<td>Menarini Korea Ltd.</td>
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<td>MEZO O DONG-A ST</td>
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<td>Mitsubishi Tanabe Pharma Korea</td>
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<td>PHILIPS KOREA</td>
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<td>Viatris Korea</td>
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<td>VUNO Inc.</td>
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<td>YOOYOUNG</td>
<td>28</td>
</tr>
<tr>
<td>YUHAN</td>
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</table>
<p>NOTE: The Lucky Draw Event will be held at the General Assembly on June 24, 2023, from 17:00 to 17:20 at RM 1 (Vista 1). Join the Lucky Draw Event during the General Assembly and get a chance to win a prize! Don't miss the chance to participate and win a special gift!</p>
## PROGRAM AT A GLANCE

### DAY 1 | JUNE 23 (Fri.)

<table>
<thead>
<tr>
<th>Time(KST)/Room</th>
<th>Room 1 (Vista 1)</th>
<th>Room 2 (Vista 2)</th>
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<th>Room 4 (Grand 4)</th>
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<td>Opening</td>
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<td>08:30-08:45</td>
<td>Break</td>
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<tr>
<td>08:45-10:15</td>
<td>Atrial Fibrillation 1: AF Risk Factor</td>
<td>YIA Competition</td>
<td>EKG Educational Course 1: ECG Basic</td>
<td>Noninvasive, Joint with KSHNE: Signals from the Heart</td>
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<td>10:15-10:30</td>
<td>Break</td>
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<tr>
<td>10:30-12:00</td>
<td>Atrial Fibrillation 2: AF Screening and AI Prediction</td>
<td>Health Policy 1: Clinical Unmet Need &amp; Emerging Issues</td>
<td>EKG Educational Course 2: ECG Arrhythmia</td>
<td>Oral Abstract 1 (AF)</td>
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<td>12:00-12:15</td>
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<td>Break</td>
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<tr>
<td>13:30-15:00</td>
<td>Special Lecture: “My Life, My EP”</td>
<td>CIED 1: Optimal Implantation Technique</td>
<td>ECG Golden Bell</td>
<td>Oral Abstract 3 (CIED)</td>
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<td>15:00-15:15</td>
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<td>16:45-17:20</td>
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<th>Room 5 (Grand 5)</th>
<th>Room 6 (Walker Hall 1)</th>
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<td>08:30-08:45</td>
<td>Break</td>
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<td>08:45-10:15</td>
<td>Congenital Heart Disease: Arrhythmia in Adult Congenital Heart Disease</td>
<td>Digital Health 1: Artificial Intelligence and Cardiac Research</td>
<td>Innovation in EP: Emerging Ablation Techniques and Novel Therapies</td>
<td>IJA (Official Journal of KHRS)</td>
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<td>10:15-10:30</td>
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<tr>
<td>10:30-12:00</td>
<td>Oral Abstract 2 (AF)</td>
<td>SPAF 1 &amp; SPAF-LAA: Latest Update on LAAO</td>
<td>Cross Specialty 1: Heart Failure &amp; Arrhythmia</td>
<td>Industry Session (SAMJIN PHARM)</td>
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<td>13:15-13:30</td>
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<td>Industry Session (YUNAN)</td>
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<td>Industry Session (YUNAN)</td>
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### ENG-KOR

- ENG: English
- KOR: Korean
- ENG-KOR: English and Korean
### DAY 2 | JUNE 24 (Sat.)

<table>
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<th>Time (KST) / Room</th>
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<tbody>
<tr>
<td>07:00-08:30 (90’)</td>
<td>Industry Session (Novartis) 07:15-07:45 (30’)</td>
<td>Industry Session (Medtronic Korea)</td>
<td>Industry Session (Boston Scientific Korea) 08:00-08:30 (30’)</td>
<td>Industry Session (Medtronic Korea)</td>
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<td>08:30-08:45 (15’)</td>
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<td>10:15-10:30 (15’)</td>
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<tr>
<td>10:30-12:00 (90’)</td>
<td>The World EP Forum at Seoul: Innovation to Clinical Practice for Better Healthcare</td>
<td>Atrial Fibrillation 4: Innovations in Ablation</td>
<td>Allied Professional 2: Cardiovascular Implantable Electronic Device</td>
<td>Oral Abstract 7 (AF)</td>
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<tr>
<td>12:00-12:15 (15’)</td>
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<td>13:15-13:30 (15’)</td>
<td>Break</td>
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<tr>
<td>13:30-15:00 (90’)</td>
<td>Ventricular Tachycardia 2: Challenging VT Ablation</td>
<td>CIED 4: Cardiac Conduction System</td>
<td>Arrhythmia Review Course 1: Basic Interpretation of Arrhythmia</td>
<td>Arrhythmia Review Course 2: Bradycardia and Pacemaker</td>
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<tr>
<td>15:00-15:15 (15’)</td>
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<tr>
<td>16:45-17:00 (15’)</td>
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<tr>
<td>17:00-17:20 (20’)</td>
<td>General Assembly of KHRS 2023</td>
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<table>
<thead>
<tr>
<th>Time (KST) / Room</th>
<th>Room 5 (Grand 5)</th>
<th>Room 6 (Walker Hall 1)</th>
<th>Room 7 (Walker Hall 2)</th>
<th>Room 8 (Art Hall)</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:00-08:30 (90’)</td>
<td>International Society Joint Session (IHRS &amp; KHRS): ICD &amp; CRT</td>
<td>Digital Health 2: AI and New Technologies in EP</td>
<td>Sports Cardiology: Athletes’ Heart</td>
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<tr>
<td>08:30-08:45 (15’)</td>
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<tr>
<td>08:45-10:10 (60’)</td>
<td>Oral Abstract 6 (SCD, VT &amp; Others)</td>
<td>Advance in Mapping &amp; Imaging for Catheter Ablation</td>
<td>CIED 2: Current Status of Korean Multicenter CIED Studies</td>
<td>Pediatric 1: SVT in Children</td>
</tr>
<tr>
<td>10:15-10:30 (15’)</td>
<td>Break</td>
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<tr>
<td>10:30-12:00 (90’)</td>
<td>Oral Abstract 8 (Digital Health)</td>
<td>EGM Tracing 2: Challenging Narrow QRS Tachycardia</td>
<td>CIED 3: Diagnostics &amp; Management</td>
<td>Industry Session (BAYER KOREA) 10:30-11:30 (60’)</td>
</tr>
<tr>
<td>12:00-12:15 (15’)</td>
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<tr>
<td>13:15-13:30 (15’)</td>
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<td>13:30-15:00 (90’)</td>
<td>Arrhythmia Review Course 3: Narrow QRS Tachycardia</td>
<td>Basic 2: Brugada Syndrome &amp; Early Repolarization Syndrome</td>
<td>Pediatric 2: CPVT</td>
<td>Industry Session (Abbott Medical Korea) 13:30-14:30 (60’)</td>
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<td>15:00-15:15 (15’)</td>
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<td>15:15-16:15 (60’)</td>
<td>Arrhythmia Review Course 4: Wide QRS Tachycardia</td>
<td>SCD 2: Sports &amp; SCD</td>
<td>Cross Specialty 3 (KASNet &amp; KHRS): Surgery vs. Catheter for AF Treatment</td>
<td>Industry Session (Medtronic Korea) 15:00-15:50 (50’)</td>
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<tr>
<td>16:45-17:00 (15’)</td>
<td>Atrial Fibrillation 6: Focusing on Pulsed Field Ablation</td>
<td>PSVT 2: Around AV Node</td>
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<tr>
<td>17:00-17:20 (20’)</td>
<td>Break</td>
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PROGRAM DETAILS

○ June 23 Fri.
○ June 24 Sat.
PROGRAM DETAILS

ATRIAL FIBRILLATION 1: AF RISK FACTOR
08:45-10:15 | ROOM 1 | ENG
CHAIR
Gyo-Seung Hwang (Ajou University School of Medicine, Republic of Korea)
Seongwook Han (Keimyung University School of Medicine, Republic of Korea)

SPEAKER
Epidemiology and Modifiable Risk Factors for AF
Prashanthan Sanders (University of Adelaide, Australia)
Effect of Active Cancer on Clinical Outcomes in Elderly AF Patients
Takanori Ikeda (Toho University Faculty of Medicine, Japan)
Lifestyle Modification and the Management of AF
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)
Sleep-Related Breathing Disorder and Atrial Fibrillation
Yang-Lung Chen (Kaohsiung Chang Gung Memorial Hospital, Taiwan)
Atrial Fibrillation and Stress
Peter Kistler (Heart Centre at the Alfred Hospital, Australia)
Impact of Frailty on Early Rhythm Control Outcomes in Older Adults with Atrial Fibrillation
Ga-In Yu (Gyeongsang National University College of Medicine, Republic of Korea)

YIA COMPETITION
08:45-10:15 | ROOM 2 | ENG
CHAIR
Jong-II Choi (Korea University College of Medicine, Republic of Korea)
Tachapong Ngarmukos (Medicine Ramathibodi Hospital, Mahidol University, Thailand)

JUDGE
José Luis Merino (La Paz University Hospital, Spain)
Jodie Hurwitz (North Texas Heart Center, United States)
Ben Freedman (University of Sydney, Australia)
Gary Tse (Hong Kong Metropolitan University, Hong Kong)
K U Natarajan (Amrita Institute of Medical Sciences and Research Center, India)
Kaoru Okishige (Syowa University, School of Medicine, Japan)
Hyung-Seob Park (Keimyung University School of Medicine, Republic of Korea)

PRESENTER
Catheter Ablation in Atrial Fibrillation and Heart Failure with Preserved Ejection Fraction (HFpEF): A Prospective Randomised Controlled Trial (STALL HFpEF)
David Chieng (Baker Heart And Diabetes Institute, Australia)
Left Common Trunkus Pulmonary Veins Have Genetic Background and Poorer Rhythm Outcome after Paroxysmal Atrial Fibrillation Catheter Ablation
Sung Hwa Choi (Yonsei University Health System, Republic of Korea)
Clonal Hematopoiesis of Indeterminate Potential in Atrial Fibrillation: Prevalence and an Association with Progression
Hyo-Jeong Ahn (Seoul National University Hospital, Republic of Korea)
Dementia Risk of Direct Oral Anticoagulants versus Warfarin for Atrial Fibrillation: Systematic Review and Meta-Analysis
Khi Yung Fong (Yong Loo Lin School of Medicine, National University of Singapore, Singapore)
Meteorological Influence on Atrial Fibrillation and Flutter, a Nationwide Retrospective Study
Andrew Kim (Michigan State University, United States)
Sex Differences in the Expression of Cardiac Remodeling and Inflammatory Cytokines in Patients with Obstructive Sleep Apnea and Atrial Fibrillation
Chun-Ting Shih (Kaohsiung Chang Gung Memorial Hospital, Taiwan)
### EKG Educational Course 1: ECG Basic

**Chair:** Dong-Gu Shin (Yeungnam University College of Medicine, Republic of Korea)  
Nam-Ho Kim (Wonkwang University School of Medicine, Republic of Korea)

**Speaker:** 
- ECG Basic, Leads and Axis  
  - Lae-Young Jung (Chonbuk National University Medical School, Republic of Korea)
  - Hyun Jun Cho (Daegu Fatima Hospital, Republic of Korea)
- ECG in Ischemic Heart Disease  
  - Young-Ah Park (Inje University College of Medicine, Republic of Korea)
- ECGs Related with Sudden Cardiac Death  
  - Yeong Young Choi (Korea University College of Medicine, Republic of Korea)
- Conduction System & Bundle Branch Block  
  - Jae-Hyuk Lee (Hanyang University College of Medicine, Republic of Korea)

**Time & Room:** 08:45-10:15 | Room 3 | KOR

### Congenital Heart Disease: Arrhythmia in Adult Congenital Heart Disease

**Chair:** Eun-Jung Bae (Seoul National University College of Medicine, Republic of Korea)  
June Huh (School of Medicine, Sungkyunkwan University, Republic of Korea)

**Speaker:** 
- AF in ACHD: Incidence, Mechanism, and Antiarrhythmic Drugs  
  - Jae Suk Baek (University of Ulsan College of Medicine, Republic of Korea)
- Transvenous or Non-transvenous ICD in ACHD  
  - Jueseong Lee (Korea University College of Medicine, Republic of Korea)
- S-ICD in ACHD  
  - Shingo Sasaki (Hirosaki University Graduate School of Medicine, Japan)
- Catheter Ablation for AF in ACHD  
  - Jae-Sun Uhm (Yonsei University Severance Hospital, Republic of Korea)
- Risk Stratification for VT & Sudden Cardiac Death in ACHD  
  - Jakyoung Yoon (Bucheon Seojong Hospital, Republic of Korea)
- Mapping & Ablation for VT in ACHD  
  - Mitchell Cohen (Inova LJ Murphy Children’s Hospital, United States)

**Time & Room:** 08:45-10:15 | Room 5 | ENG

### Noninvasive, Joint with KSHNE: Signals from the Heart

**Chair:** Dae Hyeok Kim (Inha University School of Medicine, Republic of Korea)  
Pil-sung Yang (CHA University, Republic of Korea)

**Speaker:** 
- Basic Concept and Clinical Meaning of PPG (Photoplethysmogram)  
  - Kwang-No Lee (Ajou University School of Medicine, Republic of Korea)
- Indications and Interpretation of Heart Rate Variability  
  - Ki-Woon Kang (Chung-Ang University College of Medicine, Republic of Korea)
- Clinical Significance of T Wave Alternance and Heart Rate Turbulence  
  - Young Jun Park (Yonsei University Wonju College of Medicine, Republic of Korea)
- Clinical Significance of Wearable ECG  
  - In-Soo Kim (Yonsei University College of Medicine, Republic of Korea)
- Long-Term Results of K-REDEFINE Study  
  - Jo Youn Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

**Time & Room:** 08:45-10:15 | Room 4 | KOR
## Program Details

### Digital Health 1: Artificial Intelligence and Cardiac Research

**Chair:** Dae-In Lee (Korea University College of Medicine, Republic of Korea)  
Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)

**Panel:** 
- Yoo Ri Kim (Chonnam National University Medical School, Republic of Korea)  
- Yooni Hwang (College of Medicine, The Catholic University of Korea, Republic of Korea)  
- Minsoo Kim (Dongkang Hospital, Republic of Korea)  
- Han-Joon Bae (Daegu Catholic University College of Medicine, Republic of Korea)  
- Kiyung Boo (Jeju National University School of Medicine, Republic of Korea)

**Speaker:** 
- Digital Health Care - Wearables, Mobile Applications  
- Use of AI in Cardiac Electrophysiology  
- Clinical Implication of AI in Early AF Detection  
- Machine Learning-Based Arrhythmogenic Risk Identification  
- Sung Jin Park (Emory University and Georgia Tech, United States)

### Innovation in EP: Emerging Ablation Techniques and Novel Therapies

**Chair:** Gibyung Nam (University of Ulsan College of Medicine, Republic of Korea)  
Doosang Kim (Veterans Health Service Medical Center, Republic of Korea)

**Speaker:** 
- Innovative Techniques for Durable Linear Ablation in AF Treatment  
- Innovative Methods for Vein of Marshall Ablation  
- New Ablation Energy and Technology for Ventricular Tachyarrhythmias  
- The Next Generation 3D EAM Systems and Ablation Catheters  
- New Thinking on Remote Management of CRT Non-responders  
- Anoop Gupta (Epic Hospital, Ahmedabad, India)

### IJA (Official Journal of KHRS) Session

**Chair:** Tae-Joon Cha (Kosin University College of Medicine, Republic of Korea)  
Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)

**Speaker:** 
- How to Write a Research Paper – What the Editor Is Looking For  
- Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)  
- Minsoo Kim (Dongkang Hospital, Republic of Korea)  
- Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)  
- Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)
**PROGRAM DETAILS**

**ATRIAL FIBRILLATION 2: 10:30-12:00 | ROOM 1 | ENG**

**AF SCREENING AND AI PREDICTION**

**CHAIR**
Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)
Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)

**SPEAKER**

- Screening, Detection, and Diagnosis of AF
  Ben Freedman (University of Sydney, Australia)

- Management with Wearables for AF: Applications of AI & Deep Learning
  Junbeom Park (Ewha Womans University School of Medicine, Republic of Korea)

- Artificial Intelligence for Prediction of Incident AF
  Sung Jin Park (Emory University and Georgia Tech, United States)

- Management of Subclinical AF
  Chi Keong Ching (National Heart Centre Singapore, Singapore)
  Young Jun Park (Yonsei University Wonju College of Medicine, Republic of Korea)

**HEALTH POLICY 1: 10:30-12:00 | ROOM 2 | KOR**

**CLINICAL UNMET NEED & EMERGING ISSUES**

**CHAIR**
June Soo Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Moon-Hyung Lee (Yonsei University College of Medicine, Republic of Korea)

**PANEL**

- Sang Won Park (Bucheon Sejong Hospital, Republic of Korea)
- Jung-Won Jang (College of Medicine, The Catholic University of Korea, Republic of Korea)
- Jin-Bar Kim (School of Medicine, Kyung Hee University, Republic of Korea)
- Tae-Seok Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)
- Seung-Young Roh (Korea University College of Medicine, Republic of Korea)
- Min Kim (Chungbuk National University College of Medicine, Republic of Korea)
- Seongchun Cho (SBS, Republic of Korea)
- Seonhye Park (KUKINews, Republic of Korea)
- Young Dae Cho (Ministry of Health and Welfare, Republic of Korea)

**SPEAKER**

- 부정맥 사례의 급여 심사와 사전 평가
  June Soo Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
- 섬행급여 번의 건강 심리적 외반 측면을 위한 도입 (Wearable ECG Monitoring과 직관방식 폐색술)
  Young Dae Cho (Ministry of Health and Welfare, Republic of Korea)
- 부정맥 관련 휴대 앱의 도입 (قرارهات과 휴대폰)
  Ki Young Kim (Korea Orphan & Essential Drug Center, Republic of Korea)
- 운동선수의 심전도 스크리닝
  Jin-Bar Kim (School of Medicine, Kyung Hee University, Republic of Korea)
EKG EDUCATIONAL COURSE 2: 10:30-12:00 | ROOM 3 | KOR

ECG ARRHYTHMIA

CHAIR
Gibyung Nam (University of Ulsan College of Medicine, Republic of Korea)
Hyung Wook Park (Chonnam National University Medical School, Republic of Korea)

SPEAKER
Sinus Node Dysfunction
Myung-Jin Cha (University of Ulsan College of Medicine, Republic of Korea)

AV Block, Pacemaker
Jinhee Ahn (Pusan National University School of Medicine, Republic of Korea)

Narrow QRS Tachycardia
Young Choi (College of Medicine, The Catholic University of Korea, Republic of Korea)

Wide QRS Tachycardia
Jae-Sun Uhm (Yonsei University Severance Hospital, Republic of Korea)

ECG Manifestations of Electrolyte Imbalance
Won-Seok Choe (Bucheon Sejong Hospital, Republic of Korea)

ORAL ABSTRACT 1 (AF) 10:30-12:00 | ROOM 4 | ENG

CHAIR
Yongkeun Cho (Kyungpook National University School of Medicine, Republic of Korea)
Kyoung-Min Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

PRESENER
Revisiting Symptomatic Pulmonary Vein Stenosis after High-Power Short-Duration Radiofrequency Ablation in Patients with Atrial Fibrillation
Daehoon Kim (Yonsei University College of Medicine, Republic of Korea)

Genetic Background of Sinus Node Dysfunction Requiring Permanent Pacemaker Implantations after Atrial Fibrillation Catheter Ablation
Je-Wook Park (Yonsei University Health System, Republic of Korea)

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 (The First Affiliated Hospital of Nanjing Medical University, China)

Amiodarone Is Associated with Increased Mortality Compared with Other Antiarrhythmic Drugs in New-Onset Atrial Fibrillation Patients
Hyoung Seok Lee (Korea University Anam Hospital, Republic of Korea)

Deep Learning-Based Classification of Paroxysmal Supraventricular Tachycardia Types Using Sinus Rhythm Electrocardiograms
Soonil Kwon (Seoul National University Hospital, Republic of Korea)

Lower Atrial Fibrillation Risk with Sodium-Glucose Cotransporter-2 Inhibitors versus Dipeptidyl Peptidase-4 Inhibitors in Individuals with Type 2 Diabetes: A Nationwide Cohort Study
Junyoung Lee (Chungbuk National University College of Medicine, Republic of Korea)
**PROGRAM DETAILS**

**ORAL ABSTRACT 2 (AF)**  
**10:30-12:00 | ROOM 5 | ENG**

**CHAIR**  
Sangjin Han (Hallym University Sacred Heart Hospital, Republic of Korea)  
Jumsuk Ko (Wonkwang University School of Medicine, Republic of Korea)

**PRESENTER**  
The Impact of Low Posterior Left Atrial Wall Voltage on the Outcomes of Catheter Ablation for Persistent Atrial Fibrillation: A CAPLA Substudy  
David Chieng (Baker Heart and Diabetes Institute, Australia)  
Association of Obesity and Heart Failure-Related Atrial Fibrillation: Patient-Level Data Comparisons of Two Cohort Studies  
Young Shin Lee (Severance Cardiovascular Hospital, Republic of Korea)  
Effects of Sodium-Glucose Cotransporter-2 Inhibitors on Cardiovascular Outcomes in Patients with Atrial Fibrillation and Type 2 Diabetes Mellitus: Results from a Multicenter, Propensity-Matched, Real-World Cohort Study  
Soyoon Park (The Catholic University of Korea, Seoul St. Mary’s Hospital, Republic of Korea)  
Long-Term Healthcare Utilization, Symptom Burden, and Quality of Life after Cryoballoon Ablation in Korean Patients with Atrial Fibrillation: Real-World Experience from the Cryo Global Registry  
Houngbeom Ahn (Seoul National University Bundang Hospital, Republic of Korea)  
Measured and Genetic LDL-C and the Risk of Incident Atrial Fibrillation  
Hanjin Park (Yonsei University College of Medicine, Republic of Korea)  
Rhythm Outcome of Persistent Atrial Fibrillation Ablation Depending on the Timing of the First Electrocardiographic Documentation  
Hong-Ju Kim (Yonsei University College of Medicine, Republic of Korea)

**SPAF 1 & SPAF-LAA:**  
**10:30-12:00 | ROOM 6 | ENG**  
**LATEST UPDATE ON LAAO**

**CHAIR**  
Hui-Nam Pak (Yonsei University College of Medicine, Republic of Korea)  
Gregory Lip (University of Liverpool, United Kingdom)

**SPEAKER**  
What’s the Best Anti-Thrombotic Regimen after LAAO: Factors We Should Consider  
Woohyun Lim (SMG-SNU Boramae Medical Center, Republic of Korea)  
LAAO in Very Elderly Patients: Approach to Maximize Benefit  
Oussama Wazni (Cleveland Clinic, United States)  
Impact of Pre-existing LAAO on the Substrates and Procedure of Pulmonary Vein Isolation  
Chia-Ti Tsai (National Taiwan University College of Medicine and Hospital, Taiwan)  
Combined AF Ablation & LAAO (With or without LAA Isolation)  
Moussa Mansour (Massachusetts General Hospital, United States)

**CROSS SPECIALTY 1:**  
**10:30-12:00 | ROOM 7 | ENG**  
**HEART FAILURE & ARRHYTHMIA**

**CHAIR**  
Byung-Su Yoo (Yonsei University Wonju College of Medicine, Republic of Korea)  
Yong Seog Oh (College of Medicine, The Catholic University of Korea, Republic of Korea)

**SPEAKER**  
Clinical Value of BNP/NT-proBNP in Patients of Atrial Fibrillation  
Jong-Chan Youn (College of Medicine, The Catholic University of Korea, Republic of Korea)  
LBBB and HF: Pure Electrical Disorder vs. Manifestation of Structural Heart Disease  
Jongmin Hwang (Keimyung University School of Medicine, Republic of Korea)  
Appropriate Timing of CRT in Patients with HF  
Jaewon Oh (Yonsei University College of Medicine, Republic of Korea)  
Role of AVN Ablation and CRT/CSP in Patients with Persistent AF and HF  
Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)  
Rhythm vs. Rate Control for Patients with AF and HF  
Darae Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
### PROGRAM DETAILS

#### INDUSTRY SESSION (SAMJIN PHARM)  
**10:30-11:30 | ROOM 8 | ENG**

**CHAIR**  
Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)  
Jong-II Choi (Korea University College of Medicine, Republic of Korea)

**SPEAKER**  
Update on NOAC Management of Fragile Patient with AF: Focused on Rivaroxaban  
Youngjin Cho (Seoul National University College of Medicine, Republic of Korea)

AF Screening and Wearable ECG Devices: S-Patch Ex Solution  
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)

#### INDUSTRY SESSION (SAMJIN PHARM)  
**10:30-11:30 | ROOM 8 | ENG**

**CHAIR**  
Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)  
Jong-II Choi (Korea University College of Medicine, Republic of Korea)

**SPEAKER**  
Update on NOAC Management of Fragile Patient with AF: Focused on Rivaroxaban  
Youngjin Cho (Seoul National University College of Medicine, Republic of Korea)

AF Screening and Wearable ECG Devices: S-Patch Ex Solution  
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)

#### SCIENTIFIC SESSION (MEDTRONIC KOREA):  
**12:15-13:15 | ROOM 1 | KOR**

**EXPLORING NOVEL APPROACHES IN CRYOBALLOON ABLATION FOR ATRIAL FIBRILLATION: ADVANCEMENTS IN MONITORING AND SAFETY**

**CHAIR**  
Hong-Euy Lim (College of Medicine, Hallym University, Republic of Korea)

**PANEL**  
Dong-Hyeok Kim (Ewha Womans University School of Medicine, Republic of Korea)  
Kyu-Hwan Park (Daegu Veterans Hospital, Republic of Korea)  
Min-Soo Cho (University of Ulsan College of Medicine, Republic of Korea)

**SPEAKER**  
Progressive Reduction of AF Burden After Cryoablation in Patients with Early Persistent AF Evaluated by Continuous Cardiac Rhythm Monitoring: COOL-PER Trial  
Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)

Safety and Efficacy of Intracardiac Echocardiography–Guided Zero-Fluoroscopic Cryoballoon Ablation for Atrial Fibrillation  
Jin-Hee Ahn (Pusan National University School of Medicine, Republic of Korea)

#### HEALTH POLICY 2:  
**12:15-13:15 | ROOM 2 | KOR**

**CURRENT & THE FUTURE OF REMOTE MONITORING**

**CHAIR**  
Myung Yong Lee (Dankook University College of Medicine, Republic of Korea)  
Daewoo Hyun (Andong Medical Group Hospital, Republic of Korea)

**PANEL**  
Sang Won Park (Bucheon Sejong Hospital, Republic of Korea)  
Sung-Won Jang (College of Medicine, The Catholic University of Korea, Republic of Korea)  
Jin-Bae Kim (School of Medicine, Kyung Hee University, Republic of Korea)  
Hancheol Lee (National Health Insurance Service Ilsan Hospital, Republic of Korea)  
In-Soo Kim (Yonsei University College of Medicine, Republic of Korea)  
Young Dae Cho (Ministry of Health and Welfare, Republic of Korea)  
Jeong Soo Lee (Medipana, Republic of Korea)  
Dongcharn Cho (SBS, Republic of Korea)

**SPEAKER**  
국내 원격 모니터링의 문제점  
Sang Won Park (Bucheon Sejong Hospital, Republic of Korea)  
원격 모니터링의 외국 사례  
Hyung-Deuk Park (Medtronic Korea, Republic of Korea)  
심장질환자 재택의료 사업사업 현황과 향후 전망  
Nam Young Kim (Health Insurance Review and Assessment Service, Republic of Korea)
## PROGRAM DETAILS

**THE 15TH ANNUAL SCIENTIFIC SESSION OF THE KOREAN HEART RHYTHM SOCIETY**

### SCIENTIFIC SESSION (YUHAN):

**12:15-13:15 | ROOM 3 | KOR**

#### CHAIR
Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)
Jong-II Choi (Korea University College of Medicine, Republic of Korea)

#### SPEAKER
Wearable Electrocardiograms and MEMO Clinical Trials
Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)
Digital telemonitoring and stand-by surveillance of patients
Sungloon Jung (HUNNO, Republic of Korea)

### SPECIAL LECTURE:

**13:30-15:00 | ROOM 1 | KOR**

#### ‘MY LIFE, MY EP’

**CHAIR**
Myung Yong Lee (Dankook University College of Medicine, Republic of Korea)
Tae-Joon Cha (Kosin University College of Medicine, Republic of Korea)
Jeong-Gwan Cho (Chonnam National University Medical School, Republic of Korea)
June Soo Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

### INTERNATIONAL SOCIETY JOINT SESSION (JHRS & KHRS):

**12:15-13:15 | ROOM 4 | ENG**

#### VENTRICULAR TACHYCARDIA

**CHAIR**
Hui-Nam Pak (Yonsei University College of Medicine, Republic of Korea)
Akihiko Nogami (Tokyo Arrhythmia Hospital, Japan)

**SPEAKER**
Radiofrequency Catheter Ablation of Ventricular Tachycardia in the Patients with Hypertrophic Cardiomyopathy
Miyako Igarashi (University of Tsukuba, Japan)
VT Ablation in Patients with Left Ventricular Assist Devices
Ju-Youn Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Ethanol Infusion into the Cardiac Veins to Treat Ventricular Tachycardia Arising from the Left Ventricular Summit
Kaoru Okishige (Syowa University, School of Medicine, Japan)

### CIED 1:

**13:30-15:00 | ROOM 2 | ENG**

#### OPTIMAL IMPLANTATION TECHNIQUE

**CHAIR**
Moon-Hyong Lee (Yonsei University College of Medicine, Republic of Korea)
Byung-Chun Jung (Daegu Fatima Hospital, Republic of Korea)

**SPEAKER**
Successful Implantation Techniques of CSP
Hung-Fat Tse (The University of Hong Kong, Hong Kong)
Successful Implantation Techniques of Leadless Pacemaker
Min Soo Cho (University of Ulsan College of Medicine, Republic of Korea)
Successful Implantation Techniques of S-ICD
Jihyun Lee (Seoul National University College of Medicine, Republic of Korea)
Successful Implantation Techniques of Extravascular ICD
Pil-sung Yang (CHA University, Republic of Korea)
Successful Implantation Techniques of CRT
Sung Soo Kim (Chosun University College of Medicine, Republic of Korea)
PROGRAM DETAILS

ECG GOLDEN BELL 13:30-15:00 | ROOM 3 | KOR

CHAIR
- Kihong Lee (Chonnam National University Medical School, Republic of Korea)
- Seung-Young Roh (Korea University College of Medicine, Republic of Korea)

ORAL ABSTRACT 3 (CIED) 13:30-15:00 | ROOM 4 | ENG

CHAIR
- Choong Hwan Kwak (Gyeongsang National University College of Medicine, Republic of Korea)
- Jae-Jin Kwak (Inje University College of Medicine, Republic of Korea)

PRESENTER
- Evaluation of Ventricular Pacing Suppression Algorithms in Dual Chamber Pacemaker: Results of the ‘LEADER’ Study
- Jongmin Hwang (Keimyung University Dongsan Medical Center, Republic of Korea)
- Predicting the Response to Cardiac Resynchronization Therapy Using In Silico Heart Models: Pilot Study of Comparison Between In Silico and Real Cardiac Resynchronization Therapy Outcomes
- Jae-Sun Uhm (Yonsei University Severance Hospital, Republic of Korea)
- Hypertrophic Cardiomyopathy Increases the Risks of Bradyarrhythmia and Pacemaker Implantation: A Nationwide Cohort Study
- Yu-Cheng Hsieh (Taichung Veterans General Hospital, Taiwan)
- Clinical Impact of Capsulectomy during Cardiac Implantable Electronic Device Generator Replacement: A Prospective Randomized Trial
- Hwa Jung Kim (The Catholic University of Korea, Yeouido St. Mary’s Hospital, Republic of Korea)
- Safety and Effectiveness of a 6-French MRI Conditional Pacemaker Lead: Prospective INGEVITY Plus Active Fixation Pave/Sense Lead Clinical Study in Korea
- Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)
- Real-World Effectiveness of Automated Dynamic Optimization and Left Ventricular-Only Pacing Algorithm of Cardiac Resynchronization Therapy
- Su Hyun Lee (Samsung Medical Center, Republic of Korea)

ORAL ABSTRACT 4 (BASIC & CLINICAL EP) 13:30-15:00 | ROOM 5 | ENG

CHAIR
- Myungchul Hyun (Kyungpook National University School of Medicine, Republic of Korea)
- Kyongjin Min (Incheon Sejong Hospital, Republic of Korea)

PRESENTER
- Surgical and Electrical Anatomy of the Inter-Nodal and Intra-Atrial Conduction System in the Heart
- Jeong-Wook Seo (Incheon Sejong Hospital, Republic of Korea)
- Artemisinin Reduces the Therapeutic Dose of Quinidine in Ventricular Arrhythmia Suppression of BrS
- Hyungki Jeong (Wonkwang University School of Medicine, Republic of Korea)
- The Prevalence of Upper Common Pathway in Atrio-Ventricular Nodal Reentry Tachycardia Assessed by Late Atrial Premature Depolarization
- Soypoong Park (The Catholic University of Korea, Seoul St. Mary’s Hospital, Republic of Korea)
- Small Extracellular Vesicle-Mediated Delivery of CRISPR-Cas9 Ribonucleoproteins for Heart-Specific Genome Editing
- Dasom Mun (Yonsei University College of Medicine, Republic of Korea)
- Engineered Small Extracellular Vesicle-Mediated siRNA Delivery for Targeted Therapy of Cardiac Hypertrophy
- Ji-Young Kang (Yonsei University College of Medicine, Republic of Korea)
- Conduction System Pacing with a Dual Chamber Implantable Cardioverter-Defibrillator
- Su-Yeong Park (Asan Medical Center, Republic of Korea)
### SPAF 2: SPAF IN SPECIAL POPULATIONS

**Chair:** Hyoung-Seob Park (Keimyung University School of Medicine, Republic of Korea)  
Jaemin Shim (Korea University College of Medicine, Republic of Korea)

**Speaker:**  
- Debate: Oral Anticoagulation after Successful AF Ablation: Should We Quit or Keep? [QUIT]  
  Daehoon Kim (Yonsei University College of Medicine, Republic of Korea)  
- Debate: Oral Anticoagulation after Successful AF Ablation: Should We Quit or Keep? [KEEP]  
  Yun Gi Kim (Korea University College of Medicine, Republic of Korea)  
- Updates in SPAF of AF Patients with ESRD  
  Seryoung Lee (Seoul National University College of Medicine, Republic of Korea)  
- Oral Anticoagulant Therapy for Very Elderly Patients  
  Gregory Lip (University of Liverpool, United Kingdom)  
- NOACs in AF Patients with Bioprosthetic Heart Valves  
  Seil Oh (Seoul National University College of Medicine, Republic of Korea)

### MR EDUCATION: ADVANCES IN ELECTROPHYSIOLOGY

**Chair:** Sang Weon Park (Bucheon Sejong Hospital, Republic of Korea)  
Jin-Kyu Park (Hanyang University College of Medicine, Republic of Korea)

**Speaker:**  
- SGLT2-Inhibitors in AF Patients  
  Kwang-No Lee (Ajou University School of Medicine, Republic of Korea)  
- Tips and Tricks for LBBAP  
  Hye Bin Gwag (School of Medicine, Sungkyunkwan University, Republic of Korea)  
- NOAC Dosing in Specific Population (Old Age / Low Body Weight / East Asians)  
  Jin-Kyu Park (Hanyang University College of Medicine, Republic of Korea)  
- Patch ECG Monitoring for Paroxysmal Arrhythmias  
  Ha Young Choi (Soon Chun Hyang University Hospital, Cheonan, Republic of Korea)  
- NOAC Dosing in Chronic Kidney Disease Including ESRD  
  Joo Hee Jeong (Korea University College of Medicine, Republic of Korea)

### INDUSTRY SESSION (PFIZER KOREA & BMS KOREA):

**Chair:** Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)

**Speaker:**  
- Choosing the Right OAC at the Right Dose for the Right NVAF Patient - Focus on Eliquis  
  Seung Yong Shin (Chung-Ang University College of Medicine, Republic of Korea)  
- Optimizing Anticoagulation in Procedures and Benefits of Eliquis in AF Patients  
  Myung-Jin Cha (University of Ulsan College of Medicine, Republic of Korea)

### INDUSTRY SESSION (YUHAN):

**Chair:** Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)

**Speaker:**  
- Single lead ECG 분석의 실제, 앞으로 나아가야 할 방향은?  
  Sujin Choi (HÜNNNO, Republic of Korea)  
- MEMO 사용자 사전 설명 피드백  
  Sujin Choi (HÜNNNO, Republic of Korea)
## PROGRAM DETAILS

### PLENARY SESSION: 15:15-16:45 | ROOM 1 | ENG
**EXPLORING THE FRONTIERS OF CARDIAC ELECTROPHYSIOLOGY**

**CHAIR**
- Taer-Joon Cha (Kosin University College of Medicine, Republic of Korea)
- Jong-Il Choi (Korea University College of Medicine, Republic of Korea)

**PANEL**
- Kwang-No Lee (Ajou University School of Medicine, Republic of Korea)
- Ju Youn Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Min Soo Cho (University of Ulsan College of Medicine, Republic of Korea)
- Yun Gi Kim (Korea University College of Medicine, Republic of Korea)
- Soryoung Lee (Seoul National University College of Medicine, Republic of Korea)

**SPEAKER**
- Conduction System Pacing
  - Jodie Hurwitz (North Texas Heart Center, United States)
- High-Power Short-Duration Radiofrequency Application: Hope, Hype, or Harmful?
  - José Luis Merino (La Paz University Hospital, Spain)

### PSVT 1: 15:15-16:45 | ROOM 2 | ENG
**ACCESSORY PATHWAY**

**CHAIR**
- Eun-Jung Bae (Seoul National University College of Medicine, Republic of Korea)
- Gyo-Seung Hwang (Ajou University School of Medicine, Republic of Korea)

**SPEAKER**
- Risk Stratification and Management of Patients with Asymptomatic Pre-excitation
  - Hyungki Jeong (Wonkwang University School of Medicine, Republic of Korea)
- Localization of Accessory Pathways, Insights from the ECG
  - Daehee Shin (Design Hospital, Republic of Korea)
- Safe Ablation of Anteroseptal and Midseptal Accessory Pathway
  - Jaemin Shim (Korea University College of Medicine, Republic of Korea)
- Successful Ablation of Right Free Wall Accessory Pathway in the First and Repeat Ablation
  - Hwan-Cheol Park (Hanyang University College of Medicine, Republic of Korea)
- Successful Ablation of Accessory Pathways in Patients with Anatomical Abnormalities
  - Sung-Hwan Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)

### CROSS SPECIALTY 2: 15:15-16:45 | ROOM 3 | ENG
**EP-NEUROLOGY**

**CHAIR**
- Woo-Keun Seo (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)

**SPEAKER**
- Unmet Need for AF Stroke Management: Neurologist’s Perspectives
  - Chi Kyung Kim (Korea University College of Medicine, Republic of Korea)
- Rhythm Control in AF-Stroke: Who May Benefit?
  - Junbeom Park (Ewha Womans University School of Medicine, Republic of Korea)
- Non-pharmacological Treatment in AF Stroke: Neurologist’s Perspectives
  - Woo-Keun Seo (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Understanding Atrial Cardiopathy
  - Seung Yong Shin (Chung-Ang University College of Medicine, Republic of Korea)
- Relationship between Cerebral Microbleeds (CMBs) and Intracerebral Hemorrhage (ICH) Risk
  - Seong-Joon Lee (Ajou University Medical Center, Republic of Korea)

### EGM TRACING 1: 15:15-16:45 | ROOM 4 | ENG
**CHALLENGING WIDE QRS TACHYCARDIA**

**CHAIR**
- Sung-Won Jang (College of Medicine, The Catholic University of Korea, Republic of Korea)
- Akihiko Nogami (Tokyo Arrhythmia Hospital, Japan)

**SPEAKER**
- Case Presentation
  - Chi Keong Ching (National Heart Centre Singapore, Singapore)
  - Akihiko Nogami (Tokyo Arrhythmia Hospital, Japan)
- Tachapong Ngarukkos (Medicine Ramathibodi Hospital, Mahidol University, Thailand)
- Je-Wook Park (Yonsei University College of Medicine, Republic of Korea)
**BASIC 1:** GENETICS/GENOMICS IN ARRHYTHMIA  
15:15-16:45 | ROOM 6 | KOR

**CHAIR**  
Seil Oh (Seoul National University College of Medicine, Republic of Korea)  
Christopher Semsarian (University of Sydney, Australia)

**SPEAKER**  
Genetics in Cardiology  
Christopher Semsarian (University of Sydney, Australia)  
Genetic Testing in Inherited Arrhythmia  
Joo Hee Jeong (Korea University College of Medicine, Republic of Korea)  
The Relationship between Circadian Clock Gene Expression and Atrial Fibrillation  
Yung-Lung Chen (Kaohsiung Chang Gung Memorial Hospital, Taiwan)  
Genetics of Brugada Syndrome  
Connie Bezzina (Amsterdam University Medical Center, Netherlands)  
Inherited Cardiac Disorders: From Monogenic to Polygenic  
Connie Bezzina (Amsterdam University Medical Center, Netherlands)

**NEW GUIDELINES**  
15:15-16:45 | ROOM 6 | KOR

**CHAIR**  
Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)  
Jung-Hoon Sung (CHA University, Republic of Korea)

**SPEAKER**  
Current Guidelines for the Diagnosis and Management of Atrial Fibrillation  
Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)  
Current Guidelines on the Use of Non-vitamin K Antagonist Oral Anticoagulants in Patients with Atrial Fibrillation  
Kihong Lee (Chonnam National University Medical School, Republic of Korea)  
Current Guidelines on Cardiac Pacing and Cardiac Resynchronization Therapy  
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)  
Current Guidelines for the Management of Patients with Ventricular Arrhythmias and the Prevention of Sudden Cardiac Death  
Sung Il Im (Kosin University College of Medicine, Republic of Korea)

**SCD 1:** UPDATES IN INHERITED ARRHYTHMIAS  
15:15-16:45 | ROOM 7 | ENG

**CHAIR**  
Yongkeun Cho (Kyungpook National University School of Medicine, Republic of Korea)  
Nam-Ho Kim (Wonkwang University School of Medicine, Republic of Korea)

**SPEAKER**  
Inherited Arrhythmias: A 2023 Update  
Mi Kyong Song (Seoul National University Hospital, Republic of Korea)  
LQTS: From Genetics to Management  
Leonie Wong (Royal Brompton Hospital, United Kingdom)  
Difference of Phenotype among Age and Sex in Inherited Arrhythmia  
Naokata Sumitomo (Saitama Medical University International Medical Center, Japan)  
Mechanism of Brugada Syndrome  
Elijah Behr (St George’s University of London, United Kingdom)  
Treatment of Brugada Syndrome without Quinidine  
Min Kim (Chungbuk National University College of Medicine, Republic of Korea)

**JOINT SYMPOSIUM OVERSEAS:** CHALLENGING EP CASES  
15:50-17:20 | ROOM 8 | ENG

**CHAIR**  
Dae-In Lee (Korea University College of Medicine, Republic of Korea)  
Yae Min Park (Gachon University School of Medicine, Republic of Korea)

**PRESENTER**  
Inappropriate ICD Shock Due to Paroxysmal Atrial Fibrillation  
Sze Man Fiona Yuen (North District Hospital, Hong Kong)  
Recurrent Atrial Fibrillation, Flutter after the PVI, Bidirectional CTI Block  
Saruul Tseveendee (Third State Hospital, Mongolia)  
Delayed Pericarditis after Radiofrequency Catheter Ablation for the Manifested Posteroseptal Accessory Pathway  
Euijae Lee (Bucheon Sejong Hospital, Republic of Korea)  
The Missed Connection: A Case of Failed Ablation  
Suchit Majumdar (Apollo Multispeciality Hospital Kolkata, India)  
WPW Syndrome: Right Side, Multiple, Wide Accessory Pathway and Anteroseptal Accessory Pathway  
Hyungki Jeong (Wonkwang University School of Medicine, Republic of Korea)
INDUSTRY SESSION (NOVARTIS)  07:15-07:45  |  ROOM 1  |  ENG
CHAIR  |  Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)
PANEL  |  Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)
Eun-Sun Jin (School of Medicine, Kyung Hee University, Republic of Korea)
SPEAKER  |  ARNI: Contemporary Management of Sudden Cardiac Death in Heart Failure Patients
In-Soo Kim (Yonsei University College of Medicine, Republic of Korea)

INDUSTRY SESSION (BOSTON SCIENTIFIC KOREA):  08:00-08:30  |  ROOM 1  |  ENG
SPEAKER  |  Introduction of POLARx Cryoablation System
Ju Youn Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

INDUSTRY SESSION (SANOFI-AVENTIS KOREA)  07:15-07:45  |  ROOM 2  |  ENG
SPEAKER  |  Early Rhythm Control with AAD, Beyond EAST-AFNET4 with More Evidences from Dronedarone
Min Soo Cho (University of Ulsan College of Medicine, Republic of Korea)

INDUSTRY SESSION (MEZOO)  08:00-08:30  |  ROOM 2  |  KOR
SPEAKER  |  "Digital Healthcare, 朽 것 쌓다 의 힘"
Yeewoong Kim (Mezoo, Republic of Korea)

INDUSTRY SESSION (JOHNSON & JOHNSON MEDICAL KOREA):  07:15-07:45  |  ROOM 3
OCTARAY MAPPING CATHETER WITH TRUEREF TECHNOLOGY
- Discover Biosense Webster’s new diagnostic catheter, “Ocitaray,” and deep dive into its TrueRef Technology.
- This session will uncover Ocitaray’s key features and benefits, focusing on true speed, clarity, and integration.

INDUSTRY SESSION (HANMI PHARM.)  08:00-08:30  |  ROOM 3  |  KOR
SPEAKER  |  "Digital Healthcare, 朽 것 쌓다 의 힘"
Yeewoong Kim (Mezoo, Republic of Korea)

INDUSTRY SESSION (MEDTRONIC KOREA):  07:00-08:30  |  ROOM 4  |  KOR
KOREAN CRYOBALLOON ABLATION REGISTRY
SPEAKER  |  Hong-Euy Lim (College of Medicine, Hallym University, Republic of Korea)
PANEL  |  Jum-Seok Goh (Wonkwang University School of Medicine, Republic of Korea)
Dae-In Lee (Korea University College of Medicine, Republic of Korea)
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)
SPEAKER  |  Complications of Cryoballoon Ablation
Pil-Sung Yang (CHA University, Republic of Korea)
Comparison of Early CBA vs. Late CBA
Chang-Hee Kwon (Konkuk University Professional Graduate School of Medicine, Republic of Korea)
Cryoballoon Ablation in Elderly
Hong-Euy Lim (College of Medicine, Hallym University, Republic of Korea)
**INTERNATIONAL SOCIETY JOINT SESSION (IHRS & KHRS):**

**07:00-08:30 | ROOM 6 | ENG**

**ICD & CRT**

**CHAIR**
Myungchul Hyun (Kyungpook National University School of Medicine, Republic of Korea)
K U Natarajan (Amrita Institute of Medical Sciences and Research Center, India)

**SPEAKER**
- Myungchul Hyun (Kyungpook National University School of Medicine, Republic of Korea)
- K U Natarajan (Amrita Institute of Medical Sciences and Research Center, India)

**CRT Hardware**
Anoop Gupta (Epic Hospital, Ahmedabad, India)

**ICD and CRTD Indian Experience**
Rakesh Yadav (All India Institute of Medical Science, New Delhi, India)

**ICD Algorithms Safety Features**
Deepak Padmanabhan (Sri Jayadeva Institute of Cardiac Sciences and Research, India)

**CRT vs. Conduction System Pacing in Patients with Reduced EF**
Sung Soo Kim (Chosun University College of Medicine, Republic of Korea)

**Role of Conduction System Pacing in Patients with CRT Indication**
Soryoung Lee (Seoul National University College of Medicine, Republic of Korea)

**DIGITAL HEALTH 2:**

**07:00-08:30 | ROOM 7 | ENG**

**AI AND NEW TECHNOLOGIES IN EP**

**CHAIR**
Joong-Wha Chung (Chosun University College of Medicine, Republic of Korea)
Sung Jin Park (Emory University and Georgia Tech, United States)

**SPEAKER**
- Artificial Intelligence in EP: Current State and Future
  Tetsuo Sasano (Tokyo Medical and Dental University, Japan)
- Remote Monitoring
  Aparna Jaswal (Fortis Escorts Heart Institute, India)
- The Use of Artificial Intelligence in Diagnosing and Evaluating Cardiovascular Diseases
  Youngjin Cho (Seoul National University College of Medicine, Republic of Korea)
- What’s Explainable Predictors for AF Occurrence by AI Model?
  Kihong Lee (Chonnam National University Medical School, Republic of Korea)
- Diagnosis and Treatment of Atrial Fibrillation Using Wearable Device
  Sung-Won Jang (College of Medicine, The Catholic University of Korea, Republic of Korea)

**SPORTS CARDIOLOGY:**

**07:00-08:30 | ROOM 8 | ENG**

**ATHLETES’ HEART**

**CHAIR**
Yongkeun Cho (Kyungpook National University School of Medicine, Republic of Korea)
Seongwook Han (Keimyung University School of Medicine, Republic of Korea)

**PANEL**
- Jin-Bae Kim (School of Medicine, Kyung Hee University, Republic of Korea)
- Hyoung-Seob Park (Keimyung University School of Medicine, Republic of Korea)
- Sung Ho Lee (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Hyoongseok Lee (Korea University Anam Hospital, Republic of Korea)

**SPEAKER**
- Screening for Sudden Cardiac Death in Athletes
  Tee Joo Yeo (National University Heart Centre Singapore, Singapore)
- Inherited Arrhythmia in Athletes
  Hwa Jung Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)
- Management of Sudden Cardiac Death on the Pitch
  Yoo Ri Kim (Chonnam National University Medical School, Republic of Korea)
- Management of Implantable Defibrillator in Athletes
  Reynold Agustinus (Indonesian Heart Rhythm Society, Indonesia)
- Athletes with Sudden Cardiac Death: Return to Play
  Jongmin Hwang (Keimyung University School of Medicine, Republic of Korea)
PROGRAM DETAILS

ATRIAL FIBRILLATION 3: 08:45-10:15 | ROOM 1 | ENG

ABBLATION STRATEGIES AND TECHNIQUES

CHAIR
Young-Hoon Kim (Korea University College of Medicine, Republic of Korea)
Yong Seog Oh (College of Medicine, The Catholic University of Korea, Republic of Korea)

SPEAKER
New Evidences on Substrate Modification in PeAF (KAPLA, ERASE, Etc.)
Jae-Sun Uhm (Yonsei University Severance Hospital, Republic of Korea)
Frequent PACs Cause Atrial Remodeling and Fibrosis: Implications for Early AF Prevention
Edward Gerstenfeld (UCSF, United States)
Vein of Marshall Alcohol Ablation for AF: The Past, Present and Future
Miguel Valderrabano (Houston Methodist Hospital, United States)
Twenty Years of CFAE Ablation: What Have We Learned?
Koonlawee Namemanee (Center of Excellence Arrhythmia Research Chulalongkorn University, Thailand)
The Role of Mitral Isthmus Ablation in Persistent AF and Related Techniques for the Bidirectional Block
Jumsuk Ko (Wonkwang University School of Medicine, Republic of Korea)

VENTRICULAR TACHYCARDIA 1: 08:45-10:15 | ROOM 2 | ENG

IDIOPATHIC PVC MAPPING & ABLATION

CHAIR
Nam-Ho Kim (Wonkwang University School of Medicine, Republic of Korea)
Fa-Po Chung (Taipei Veterans General Hospital, Taiwan)

SPEAKER
Parahisian PVC: Mapping and Ablation of Premature Ventricular Complexes (PVC)
Chin-Yu Lin (Taipei Veterans General Hospital, Taiwan)
Aortic Cusp PVC: Mapping and Ablation of Aortic Cusp PVC
Sung Il Im (Kosin University College of Medicine, Republic of Korea)
Summit PVC: Anatomy, Mapping and Ablation of Left Ventricular (LV) Summit PVC
Kanru Okishige (Syowa University, School of Medicine, Japan)
Crux PVC: Anatomy, Mapping and Ablation of Crux PVC
Dong-Hyek Kim (Ewha Womans University School of Medicine, Republic of Korea)
Outcomes of Ablation of Multiple PVC Morphologies
Jihyoun Lee (Seoul National University College of Medicine, Republic of Korea)

ALLIED PROFESSIONAL 1: 08:45-10:15 | ROOM 3 | ENG

SUPRAVENTRICULAR TACHYCARDIA

CHAIR
Jeong-Wook Park (The Catholic University of Korea, Seoul St. Mary’s Hospital, Republic of Korea)
Wonyoung Jung (Samsung Medical Center, Republic of Korea)

SPEAKER
Update of Pacing Maneuver for Discrimination of SVTs
Rae Han Yoo (Yeouido Cardiology Hospital, Republic of Korea)
SVTs with Ventricular-Atria Block: Mechanism and Treatment
Juwan Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Differential Diagnosis of Preexcited SVTs
Jongho Shin (College of Medicine, The Catholic University of Korea, Republic of Korea)
Dual AV Nodal Non-Reentrant Tachycardia: Mechanism and Treatment
Mitchell Cowan (Cardiac Physiology in Practice, Australia)
Atrial Tachycardias Post AF Ablation
Hyeonjun Kim (Ewha Womans University Medical Center, Republic of Korea)
## ORAL ABSTRACT 5 (AF)

**08:45-10:15 | ROOM 4 | ENG**

| CHAIR | Byung-Chun Jung (Daegu Fatima Hospital, Republic of Korea)  
Minsu Kim (Chungnam National University College of Medicine, Republic of Korea) |
|------------------|--------------------------------------------------------------------------------------------------|
| PRESENTER Antithrombotic Treatment in Patients with Effectively Maintained Sinus Rhythm after Atrial Fibrillation Ablation (ATEMS-AF)  
Hyo-Jeong Ahn (Seoul National University Hospital, Republic of Korea)  
A Novel Role for Aquaporin-4 Blocker Attenuates the Progression of Atrial Remodeling in Angiotensin II-Induced Atrial Fibrillation Mice Model  
Yej Kim (Ewha Womans University Medical Center, Republic of Korea)  
Roles of Atrial Mass Reduction and Gaps on the Anti-Atrial Fibrillatory Effects of Pulmonary Vein Isolation: A Computational Modeling Study  
TaeHyun Hwang (Yonsei University College of Medicine, Republic of Korea)  
Ablation Outcomes of Posterior Wall Isolation in Addition to Pulmonary Vein Isolation in Persistent Atrial Fibrillation and Heart Failure with Reduced Ejection Fraction (HFpEF)  
David Chiang (Baker Heart and Diabetes Institute, Australia)  
Outcome of Patients Who Refuse Catheter Ablation or Cardioversion for Drug-Refractory Atrial Fibrillation  
Soohyun Kim (The Catholic University of Korea, Seoul St. Mary’s Hospital, Republic of Korea)  
Estimation of Local Conduction Velocity in a High-Resolution Three-Dimensional Triangular Mesh Using the Average Nodal Gradients Algorithm on Triangular Grids  
Oh-Seok Kwon (Yonsei University Health System, Republic of Korea) |

## ORAL ABSTRACT 6 (SCD, VT & OTHERS)

**08:45-10:15 | ROOM 5 | ENG**

| CHAIR | Daewoo Hyun (Andong Medical Group Hospital, Republic of Korea)  
Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea) |
|------------------|--------------------------------------------------------------------------------------------------|
| PRESENTER T-Wave Alternans in Patients with Congenital and Acquired Long QT Syndrome  
Hyeon-Jeong Oh (Asan Medical Center, Republic of Korea)  
Optimal Timing of Ventricular Arrhythmia Ablation after Myocardial Infarction and Potential Role of Programmed Ventricular Stimulation: Systematic Review and Meta-Analysis  
Prana Jagannatha (Udayana University Hospital, Indonesia)  
Neuroticism and Sudden Cardiac Death: A Prospective Cohort Study from UK Biobank  
Kyu Sung-Yoon Lee (Seoul National University Hospital, Republic of Korea)  
The Benefits of Implantable Cardioverter-Defibrillators (ICD) for Primary Prevention of Sudden Death in Patients with Valvular Cardiomyopathy: ‘B(enefits of ICD for the Primary Pre’vevention in Patients with V’acular Cardiomyopa’t’hy: ‘BEAT’ Study)  
Tae Wan Chung (Keimyung University Dongsan Medical Center, Republic of Korea)  
Catheter Ablation of Ventricular Arrhythmia in Patients with an Implantable Cardioverter-Defibrillator: A Systematic Review and Meta-Analysis  
Khi Yung Fong (Yong Loo Lin School Of Medicine, National University of Singapore, Singapore)  
Association of Temporal Change in Body Mass Index with Sudden Cardiac Arrest in Diabetes Mellitus  
Joo Hee Jeong (Korea University Anam Hospital, Republic of Korea) |

## ADVANCE IN MAPPING & IMAGING FOR CATHETER ABLATION

**08:45-10:15 | ROOM 6 | ENG**

| CHAIR | Seongwook Han (Keimyung University School of Medicine, Republic of Korea)  
Akihiko Nogami (Tokyo Arrhythmia Hospital, Japan) |
|------------------|--------------------------------------------------------------------------------------------------|
| SPEAKER Advances in Signal Processing to Improve Myocardial Recognition  
Akihiko Nogami (Tokyo Arrhythmia Hospital, Japan)  
Clinical Application of ICE in EP Domain  
Seung Yong Shin (Chung-Ang University College of Medicine, Republic of Korea)  
Multimodality Imaging Approach to LA Remodeling in Subclinical AF  
Dae-In Lee (Korea University College of Medicine, Republic of Korea)  
Usefulness of High Density Mapping in AF Ablation  
Takanori Yamaguchi (Saga University, Japan) |
PROGRAM DETAILS

**CIED 2: CURRENT STATUS OF KOREAN MULTICENTER CIED STUDIES**

**CHAIR**
June Soo Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

**SPEAKER**
**DEDICATES Study: Device-Detected Sleep Apnea**
Hye Bin Gwag (School of Medicine, Sungkyunkwan University, Republic of Korea)

**ACHIEVE - SYNC Study: LBBA PPM Study Using Extendable/Retractable Screw-in Lead**
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)

**BENEFIT-RM Study: CIEDs with Remote Monitoring**
Daehoon Kim (Yonsei University College of Medicine, Republic of Korea)

**STEADIED Study: S-ICD in Patients with CKD/ESRD**
Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

**THE WORLD EP FORUM AT SEOUL: ‘INNOVATION TO CLINICAL PRACTICE FOR BETTER HEALTHCARE’**

**CHAIR**
Myung Yong Lee (Dankook University College of Medicine, Republic of Korea)
Tae-Joon Cha (Kosin University College of Medicine, Republic of Korea)

**DISCUSSANT**
Jodie Hurwitz (North Texas Heart Center, United States)
José Luis Merino (La Paz University Hospital, Spain)
Young-Hoon Kim (Korea University College of Medicine, Republic of Korea)
Seil Oh (Seoul National University College of Medicine, Republic of Korea)
Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)
Jong-Il Choi (Korea University College of Medicine, Republic of Korea)

**SPEAKER**
Managing Complex Patients with Atrial Fibrillation: Easy Approaches Applicable Globally
Gregory Lip (University of Liverpool, United Kingdom)

Genetic Testing and Risk Stratification for Brugada Syndrome
Wataru Shimizu (Nippon Medical School, Japan)

Major Issues in AF Catheter Ablation among Asian-Pacific Countries
Hui-Nam Pak (Yonsei University College of Medicine, Republic of Korea)

**PEDIATRIC 1: SVT IN CHILDREN**

**CHAIR**
June Huh (School of Medicine, Sungkyunkwan University, Republic of Korea)
Jae Young Lee (College of Medicine, The Catholic University of Korea, Republic of Korea)

**SPEAKER**
Diagnosis and Management of Tachycardia-Induced Cardiomyopathy
Youngki Cho (Chosun University College of Medicine, Republic of Korea)

Junctional Ectopic Tachycardia: Update of Management
Kyung-Jin Ahn (Gachon University School of Medicine, Republic of Korea)

Lone Atrial Fibrillation in Children
Jihye You (Chonbuk National University Hospital, Republic of Korea)

Risks and Benefits of Amiodarone in Infants
Mi Kyoung Song (Seoul National University Hospital, Republic of Korea)

Ivabradine in Management of Pediatric Arrhythmias
Joowon Lee (Seoul National University Bundang Hospital, Republic of Korea)
### Atrial Fibrillation 4: Innovations in Ablation

**CHAIR**
Moon-Hyung Lee (Yonsei University College of Medicine, Republic of Korea)
Choong Hwan Kwak (Gyeongsang National University College of Medicine, Republic of Korea)

**SPEAKER**
- High Power Short Duration Radiofrequency Ablation with a Diamond-Temperature Tip Catheter
  - Je-Wook Park (Yonsei University College of Medicine, Republic of Korea)
- Cryothermal-Balloon Ablation, with Introduction of Newly Developed Balloons
  - Jihyun Lee (Seoul National University College of Medicine, Republic of Korea)
- Hot-Balloon Ablation, Experience in Japan
  - Hiro Yamasaki (University of Tsukuba, Japan)
- Laser-Balloon Ablation
  - Shiro Nakahara (Dokkyo Medical University Saitama Medical Center, Japan)
- AF Histology and Substrate
  - Takanori Yamaguchi (Saga University, Japan)

### Allied Professional 2: Cardiovascular Implantable Electronic Device

**CHAIR**
Nayun Kang ( Dankook University Hospital, Republic of Korea)
Chun Ja Yoo (Chonbuk National University Hospital, Republic of Korea)

**SPEAKER**
- Differentiation Conduction System vs Myocardial Pacing
  - Suin Han (Severance Hospital, Republic of Korea)
- Advances in Non-Transvenous ICD
  - Eun Kyung Yoon ( Boston Scientific Korea, Republic of Korea)
- Advances in Conduction System Pacing
  - Tai Wan Chung (Keimyung University Dongan Medical Center, Republic of Korea)
- Future Perspective of CIED Remote Monitoring in Korea
  - Gun Lee (Severance Hospital, Republic of Korea)
- CIED Detected AF and Stroke Risk?
  - Young Jun Park (Yonsei University Wonju College of Medicine, Republic of Korea)

### Oral Abstract 7 (AF)

**CHAIR**
June Namgung (Inje University College of Medicine, Republic of Korea)
Myung Hwan Bae (Kyungpook National University School of Medicine, Republic of Korea)

**PRESENTER**
- Prevalence and Clinical Characteristics of Cardiac Amyloidosis in Patients Undergoing Catheter Ablation for Atrial Fibrillation: Evidence from Atrial and Ventricular Biopsy
  - Toyokazu Otsubo (Saga University, Japan)
- Improvement of Moderate to Severe Tricuspid Regurgitation after Catheter Ablation for Persistent Atrial Fibrillation
  - Myung-Jin Cha (Asan Medical Center, Republic of Korea)
- The Effects of Radiofrequency Catheter Ablation for Atrial Fibrillation on Right Ventricular Function
  - Jae-Sun Uhm (Yonsei University Severance Hospital, Republic of Korea)
- Difference of Cryoballon vs. Radiofrequency Ablations for Atrial Fibrillation Based on the Electroanatomical Mechanisms
  - Moon Hyun Kim (Yonsei University College of Medicine, Republic of Korea)
- More Susceptible Atrial Remodeling in Atrial Fibrillation According to Alcohol Consumption and the Impact of Alcohol Abstinence: MRI-Based Study from UK Biobank
  - Hyo-Jeong Ahn (Seoul National University Hospital, Republic of Korea)
- Efficacy and Safety of Single Direct Oral Anticoagulant Therapy in Patients with AF within One Year after Coronary Stent Implantation
  - Young Choi (The Catholic University of Korea, Seoul St. Mary’s Hospital, Republic of Korea)
## ORAL ABSTRACT 8 (DIGITAL HEALTH)  10:30-12:00 | ROOM 5 | ENG

**CHAIR**
Doosang Kim (Veterans Health Service Medical Center, Republic of Korea)
Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)

**PRESENTER**
- Unlocking the Hidden Rhythms: Artificial Intelligence-Powered Prediction of Paroxysmal Atrial Fibrillation in Patients with Embolic Stroke of Undetermined Source Using Sinus Rhythm Electrocardiograms
  - Jina Choi (Seoul National University Bundang Hospital, Republic of Korea)
- Prediction of Recurrence of Atrial Fibrillation after Catheter Ablation Using an Artificial Intelligence on Electrocardiogram
  - Jinsoo Park (Asan Medical Center, Republic of Korea)
- A New Sequential Artificial Intelligence Algorithm for Predicting Atrial Fibrillation Using Serial 12-Lead Electrocardiograms
  - Ji-Hoon Choi (Konkuk University Medical Center, Republic of Korea)
- Automatic Measurement of Left Atrial Appendage and Pulmonary-Vein Diameter in Atrial Fibrillation Patients Using Artificial Intelligence
  - Oh-Seok Kwon (Yonsei University Health System, Republic of Korea)

## EGM TRACING 2:  10:30-12:00 | ROOM 6 | ENG

### CHALLENGING NARROW QRS TACHYCARDIA

**CHAIR**
Seongwook Han (Keimyung University School of Medicine, Republic of Korea)
Chun Hwang (KHRS, United States)

**SPEAKER**
- Case Presentation
  - Daehoon Kim (Yonsei University College of Medicine, Republic of Korea)
  - Juwon Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
  - Lae-Young Jung (Chonbuk National University Medical School, Republic of Korea)

## CIED 3:  10:30-12:00 | ROOM 7 | ENG

### DIAGNOSTICS & MANAGEMENT

**CHAIR**
Dong-Gu Shin (Yeungnam University College of Medicine, Republic of Korea)
Young Soo Lee (Daegu Catholic University College of Medicine, Republic of Korea)

**SPEAKER**
- CIED-Detected Sleep Apnea
  - Younghoon Kwon (University of Washington, United States)
- CIED Infections
  - Bruce Wilkoff (Cleveland Clinic, United States)
- Lead Management: Moving from Isolation to Community
  - Bruce Wilkoff (Cleveland Clinic, United States)
- CIED-Based HF Diagnostic Features
  - Jinhee Choi (Pusan National University School of Medicine, Republic of Korea)
- Multicenter Registry of ILR in Korea
  - Ju Yoon Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
## Industry Session (Bayer Korea):
**Xarelto®, Protection Never Rests**

**Chair:** Gyo-Seung Hwang (Ajou University School of Medicine, Republic of Korea)  
Nam-Ho Kim (Wonkwang University School of Medicine, Republic of Korea)

**Speaker:**  
- Why Does Kidney Matter: New Insight from RENOVATOR Study  
Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)
- Protection Vascular Events in NVAF Patients with Diabetes  
Hyoung-Seob Park (Keimyung University School of Medicine, Republic of Korea)
- How to Apply Real World Evidence of Xarelto for Asian Patients?  
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)

## Scientific Session (Abbott Medical Korea):
**Achieving Best Outcome for Patients with Cardiovascular Disease with Edoxaban**

**Chair:** Young-Hoon Kim (Korea University College of Medicine, Republic of Korea)

**Speaker:**  
- Agilis HisPro: Tips & Tricks with Real Case Sharing, New Paradigm of Conduction System Pacing  
Ju Youn Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Practical Usage of HD Grid and Initial Experience with Ensite X OT Near Field Technology  
Takanori Yamaguchi (Saga University, Japan)

## Scientific Session (Daiichi-Sankyo & Daewoong):
**State-of-the-Art Lecture on Risk Stratification in Anticoagulation**

**Chair:** Seongwook Han (Keimyung University School of Medicine, Republic of Korea)

**Speaker:**  
- Toward Better Risk Stratification for Stroke Prevention in AF  
Gregory Lip (University of Liverpool, United Kingdom)
- Eliquis, a Well-Balanced NOAC across the Risk Spectrum  
Youmi Hwang (College of Medicine, The Catholic University of Korea, Republic of Korea)
### INTERNATIONAL SOCIETY JOINT SESSION (THRS & KHRS):

**AF & AT**

**CHAIR**
- Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)
- Li-Wei Lo (Taipei Veterans General Hospital, Taiwan)

**SPEAKER**
- How to Apply the Results of CRYO FIRST & EARLY AF in Context of EAST-AFNET 4
  - Jun Kim (University of Ulsan College of Medicine, Republic of Korea)
- Multimodality Imaging Approach to LA Remodeling in Subclinical AF
  - Hsuan-Ming Tsao (National Yang Ming Chiao Tung University Hospital, Taiwan)
- Catheter Ablation of Atrial Fibrillation Reduces the Risk of Dementia and Hospitalization During a Very Long-Term Follow-Up
  - Yu-Cheng Hsieh (Taichung Veterans General Hospital, Taiwan)

### VENTRICULAR TACHYCARDIA 2:

**CHALLENGING VT ABLATION**

**CHAIR**
- Yong Seog Oh (College of Medicine, The Catholic University of Korea, Republic of Korea)
- Chun Hwang (KHRS, United States)

**SPEAKER**
- Ischemic VT : Role of Radiofrequency (RF) Ablation in Ischemic VT: When, How, and End-Point
  - Gibyung Nam (University of Ulsan College of Medicine, Republic of Korea)
- HCMP: Catheter Ablation for Ventricular Arrhythmias in Hypertrophic Cardiomyopathy
  - Minglong Chen (The First Affiliated Hospital of Nanjing Medical University, China)
- VT with LVAD: Management of Ventricular Tachycardia in Left Ventricular Assist Device (LVAD)
  - Chun Hwang (KHRS, United States)
- Acute and Long-Term Results of Bipolar Radiofrequency Catheter Ablation of Refractory Ventricular Arrhythmias of Deep Intramural Origin
  - Miyako Igarashi (University of Tsukuba, Japan)
- Epicardial Ablation in Brugada Syndrome
  - Yae Min Park (Gachon University School of Medicine, Republic of Korea)

### CIED 4:

**CARDIAC CONDUCTION SYSTEM**

**CHAIR**
- Hyung Wook Park (Chonnam National University Medical School, Republic of Korea)
- Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

**SPEAKER**
- Anatomy of Cardiac Conduction System
  - Jeong-Woo Seo (Incheon Sejong Hospital, Republic of Korea)
- Incidental LBBB: Epidemiology, Pathophysiology, Clinical Implication
  - Ki-Woon Kang (Chung-Ang University College of Medicine, Republic of Korea)
- Pacing-Induced Cardiomyopathy: Epidemiology, Pathophysiology, Clinical Implication
  - Jun Hyung Kim (Chungnam National University College of Medicine, Republic of Korea)
- Conduction System Disorders Following Septal Myectomy
  - Kihong Lee (Chonnam National University Medical School, Republic of Korea)
- Conduction System Disorders Following TAVR
  - Yoomi Hwang (College of Medicine, The Catholic University of Korea, Republic of Korea)

### ARRHYTHMIA REVIEW COURSE 1:

**BASIC INTERPRETATION OF ARRHYTHMIA**

**CHAIR**
- Moon-Hyang Lee (Yonsei University College of Medicine, Republic of Korea)

**SPEAKER**
- Case Presentation
  - Tae-Seok Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)
- Ungjeong Do (Dongguk University School of Medicine, Republic of Korea)
- Euijae Lee (Bucheon Sejong Hospital, Republic of Korea)
### ARRHYTHMIA REVIEW COURSE 2: 14:15-15:00 | ROOM 3 | KOR
#### BRADYCARDIA AND PACEMAKER
- **CHAIR**
  - Jin-Seok Kim (Korea University College of Medicine, Republic of Korea)
- **SPEAKER**
  - Case Presentation
  - In Geol Song (Baekje General Hospital, Republic of Korea)
  - Jin-Kyu Park (Hanyang University College of Medicine, Republic of Korea)
  - Junbeom Park (Ewha Womans University School of Medicine, Republic of Korea)

### ATRIAL FIBRILLATION 5: 13:30-15:00 | ROOM 4 | ENG
#### ABLATION RECURRENT AND COMPLICATIONS
- **CHAIR**
  - Hui-Nam Pak (Yonsei University College of Medicine, Republic of Korea)
  - Fa-Po Chung (Taipei Veterans General Hospital, Taiwan)
- **SPEAKER**
  - How Can We Redefine the Recurrence of AF after Catheter Ablation of AF?
  - Li-Wei Lo (Taipei Veterans General Hospital, Taiwan)
  - Current Definition of Blanking Period (~3 Months) after Catheter Ablation of AF: Is It Still Valid?
  - Yun Gi Kim (Korea University College of Medicine, Republic of Korea)
  - High Density Mapping of AT/Atypical Flutters Post AF Ablation
  - Shinzuke Miyazaki (Tokyo Medical and Dental University, Japan)
  - How to Optimize Workflow in AF Ablation Procedure?
  - Hyung-Seob Park (Keimyung University School of Medicine, Republic of Korea)
  - Relevant Anatomic Consideration to Prevent Complications of AF Ablation
  - Huan-Ming Tsao (National Yang Ming Chiao Tung University Hospital, Taiwan)

### BASIC 2: 13:30-15:00 | ROOM 6 | ENG
#### BRUGADA SYNDROME & EARLY REPOLARIZATION SYNDROME
- **CHAIR**
  - Young Soo Lee (Daegu Catholic University College of Medicine, Republic of Korea)
- **SPEAKER**
  - Inherited Arrhythmias Associated with SCN5A Mutations: A Translational Perspective
  - Seiko Ohno (National Cerebral and Cardiovascular Center, Japan)
  - Brugada Syndrome: A Translational Perspective
  - Seiko Ohno (National Cerebral and Cardiovascular Center, Japan)
  - Genetic Basis of Early Repolarization Syndrome
  - Dan Hu (Renmin Hospital of Wuhan University, China)
  - Brugada Syndrome: From Genetics to Clinic
  - Namsik Yoon (Chonnam National University Medical School, Republic of Korea)

### PEDIATRIC 2: 13:30-15:00 | ROOM 7 | ENG
#### CPVT
- **CHAIR**
  - Myungchul Hyun (Kyungpook National University School of Medicine, Republic of Korea)
  - Eun-Jung Bae (Seoul National University College of Medicine, Republic of Korea)
- **SPEAKER**
  - The Role of the Ryanodine Receptor: Calcium Homeostasis in Cardiac Cells
  - Jakyoung Yoon (Bucheon Sejong Hospital, Republic of Korea)
  - Medical Management in CPVT: Beta Blocker? Flecainide? Both?
  - Hwa Jin Cho (Chonnam National University Medical School, Republic of Korea)
  - Role and Indications for Sympathectomy
  - Min-Jung Cho (Gyeongsang National University College of Medicine, Republic of Korea)
  - ICD Use in CPVT
  - Yeo Hyang Kim (Kyungpook National University School of Medicine, Republic of Korea)
  - CPVT and Sports Participation
  - Soo In Jeong (Ajou University School of Medicine, Republic of Korea)
INDUSTRY SESSION (ABBOTT MEDICAL KOREA):
MAPPING WITHOUT COMPROMISE
13:30-14:30 | ROOM 8 | ENG

CHAIR
Dae-In Lee (Korea University College of Medicine, Republic of Korea)

SPEAKER
3D Mapping Ablation Case Tip and Tricks (Mapping, Interpretation, Ablation)
Takanori Yamaguchi (Saga University, Japan)

INDUSTRY SESSION (MEDTRONIC KOREA):
TYRX™ ABSORBABLE ANTIBACTERIAL ENVELOPE
15:00-15:50 | ROOM 8 | ENG

CHAIR
Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)
Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

PANEL
Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)
Min-Soo Cho (University of Ulsan College of Medicine, Republic of Korea)
Pil-Sung Yang (CHA University, Republic of Korea)

SPEAKER
TYRX™ Technology and Experiences: Implications of Study Data and Patient Selection
Bruce Wilkoff (Cleveland Clinic, United States)
CIED Infection Incidence and Impact: Current Status of Korea
Jae-Sun Uhm (Yonsei University Severance Hospital, Republic of Korea)

INTERNATIONAL SOCIETY JOINT SESSION (HKCC & KHRS):
CIED UPDATE AND PHYSIOLOGIC PACING
15:15-16:45 | ROOM 1 | ENG

CHAIR
Young-Hoon Kim (Korea University College of Medicine, Republic of Korea)
Hung-Fat Tse (The University of Hong Kong, Hong Kong)

SPEAKER
Practical Considerations for Leadless Pacemaker Therapy
Chu-Pak Lau (Queen Mary Hospital, The University of Hong Kong, Hong Kong)

Latest Update of SICD
Hung-Fat Tse (The University of Hong Kong, Hong Kong)

A Conduction Disease-Specific Approach to Pacing and CRT in Heart Failure
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)

Clinical Trials in Conduction System Pacing
Soryoung Lee (Seoul National University College of Medicine, Republic of Korea)

Physiological Pacing
Joseph YS Chan (Prince of Wales Hospital, Chinese University of Hong Kong, Hong Kong)
**BOOTCAMP FOR RESIDENTS/FELLOWS & BEST RESEARCH** 15:15-16:45 | ROOM 2 | KOR

**CHAIR**
Yae Min Park (Gachon University School of Medicine, Republic of Korea)
Hye Bin Gwag (School of Medicine, Sungkyunkwan University, Republic of Korea)

**SPEAKER**
Lecture: Bootcamp for Residents/Fellows
Seung-Young Roh (Korea University College of Medicine, Republic of Korea)

**PRESENTER**
Diagnostic Yield of an Ambulatory Photoplethysmography Monitor in Patients with Unexplained Syncope
So Young Yang (Asan Medical Center, Republic of Korea)
Early Rhythm Control on Diabetes-Related Complications and Mortality in Patients with Diabetes Mellitus and Atrial Fibrillation
Jungmin Choi (Seoul National University Hospital, Republic of Korea)
The Risk of All-Cause Death and Death from Various Causes According to Prevalent Atrial Fibrillation: A Nationwide Population-Based Study
Youngkwan Kim (Seoul National University Hospital, Republic of Korea)
Rhythm Control and Cardiovascular or Cerebrovascular Outcomes in Patients with Atrial Fibrillation: A Study of the CODE-AF Registry
Ho Gi Chung (Yonsei University College of Medicine, Republic of Korea)
Comparison of Electrical Dyssynchrony Following Leadless versus Conventional Pacemaker Implantation
Ye Chan Kim (Samsung Medical Center, Republic of Korea)

**ARRHYTHMIA REVIEW COURSE 3:** 15:15-16:00 | ROOM 3 | KOR

**NARROW QRS TACHYCARDIA**

**CHAIR**
Hyung Wook Park (Chonnam National University Medical School, Republic of Korea)

**SPEAKER**
Case Presentation
Do Young Kim (College of Medicine, Hallym University, Republic of Korea)
Chang Hee Kwon (Konkuk University Professional Graduate School of Medicine, Republic of Korea)
Ki-Woon Kang (Chung-Ang University College of Medicine, Republic of Korea)

**ARRHYTHMIA REVIEW COURSE 4:** 16:00-16:45 | ROOM 3 | KOR

**WIDE QRS TACHYCARDIA**

**CHAIR**
Dae Hyeok Kim (Chonbuk National University Medical School, Republic of Korea)

**SPEAKER**
Case Presentation
Jun Hyung Kim (Chungnam National University College of Medicine, Republic of Korea)
Minsu Kim (Chungnam National University College of Medicine, Republic of Korea)
Hwan-Chool Park (Hanyang University College of Medicine, Republic of Korea)

**SCD 2:** 15:15-16:45 | ROOM 4 | ENG

**SPORTS & SCD**

**CHAIR**
Kyoung-Suk Rhee (Chonbuk National University Medical School, Republic of Korea)
June Namgung (Inje University College of Medicine, Republic of Korea)

**SPEAKER**
Cardiac Events in World-Class Athletes
Myung Hwan Bae (Kyungpook National University School of Medicine, Republic of Korea)
Women and SCD in Sport
Jacob Tfelt-Hansen (Copenhagen University Hospital, Rigshospitalet, Denmark)
Sudden Death in Athletes with Hypertrophic Cardiomyopathy
Gherardo Finocchiaro (St George’s University of London, United Kingdom)
How Does the COVID-19 Pandemic Change Screening Requirements for Athletes?
Raghav Bhatia (St George’s University of London, United Kingdom)
SCD Risk Stratification in Athletes
Gary Tse (Hong Kong Metropolitan University, Hong Kong)
### ATRIAL FIBRILLATION 6: 15:15-16:45 | ROOM 5 | ENG

**FOCUSING ON PULSED FIELD ABLATION**

**CHAIR**
- Dong-Gu Shin (Yeungnam University College of Medicine, Republic of Korea)
- Nam-Ho Kim (Wonkwang University School of Medicine, Republic of Korea)

**SPEAKER**
- Biophysics of Pulsed Field Ablation
  - Tom De Potter (Cardiovascular Center, OLV Hospital Aalst, Belgium, Belgium)
- Initial Experience with Pulsed Field Ablation for Atrial Fibrillation
  - Tom De Potter (Cardiovascular Center, OLV Hospital Aalst, Belgium, Belgium)
- Application and Device Considerations for Energy Delivery
  - Dongmin Kim (Dankook University College of Medicine, Republic of Korea)
- Lesion Characteristics in Animal Studies
  - Sung Il Im (Kosin University College of Medicine, Republic of Korea)
- Can Pulse Field Ablation Meet All Your Needs?
  - Stylianos Tzeis (Mitera Hospital, Greece)

### PSVT 2: 15:15-16:45 | ROOM 6 | ENG

**AROUND AV NODE**

**CHAIR**
- June Huh (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Sangjin Han (Hallym University Sacred Heart Hospital, Republic of Korea)

**SPEAKER**
- Narrow OBS Tachycardia with Ventriculoatrial Dissociation: Possible Mechanisms
  - Moo-Nyun Jin (Ewha Womans University School of Medicine, Republic of Korea)
- Reentrant AT in the Vicinity of AV Node or Tricuspid Annulus
  - Young Choi (College of Medicine, The Catholic University of Korea, Republic of Korea)
- Upper and Lower Common Pathway
  - Minsoo Ahn (Yonsei University Wonju College of Medicine, Republic of Korea)
- When to Ablate the Slow Pathway from the Mitral Annulus?
  - Sunhwa Kim (Presbyterian Medical Center, Republic of Korea)
- Fast Slow AVNRT: Diagnosis and Ablation
  - Jae-Jin Kwak (Inje University College of Medicine, Republic of Korea)

### CROSS SPECIALTY 3 (KASNet & KHRS): 15:15-16:45 | ROOM 7 | ENG

**SURGERY VS. CATHETER FOR AF TREATMENT**

**CHAIR**
- Cheong Lim (Seoul National University College of Medicine, Republic of Korea)
- Sang Weon Park (Bucheon Sejong Hospital, Republic of Korea)

**PANEL**
- Junsung Kim (Seoul National University College of Medicine, Republic of Korea)
- Hee Jung Kim (Korea University College of Medicine, Republic of Korea)
- Ho Jin Kim (University of Ulsan College of Medicine, Republic of Korea)
- Kyoungh-Min Park (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Jaemin Shim (Korea University College of Medicine, Republic of Korea)

**SPEAKER**
- Hybrid Arrhythmia Surgery
  - Dong Seop Jeong (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Recent Update of LA Appendage Closure
  - Seung Yong Shin (Chung-Ang University College of Medicine, Republic of Korea)
- Surgical LAA Closure
  - Ho Young Hwang (Seoul National University College of Medicine, Republic of Korea)
- Treatment of Atrial Tachyarrhythmias after the MAZE Procedure
  - Jun Kim (University of Ulsan College of Medicine, Republic of Korea)
- Update of MAZE Operation
  - Hyung Gon Je (Pusan National University School of Medicine, Republic of Korea)

### INDUSTRY SESSION (DAICHII-SANKYO & DAEWOONG): 15:55-16:55 | ROOM 8 | ENG/KOR

**ACHIEVING BEST OUTCOME FOR PATIENTS WITH CARDIOVASCULAR DISEASE WITH EDOXABAN**

**CHAIR**
- Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)
- Jong-II Choi (Korea University College of Medicine, Republic of Korea)

**SPEAKER**
- State-of-the-Art Lecture on Holistic Management of AF
  - Robert Giugliano (Brigham and Women’s Hospital, United States)
- Controversial Issues Regarding the Use of NOACs for Stroke Prevention in Patients with AF
  - Kihong Lee (Chonnam National University Medical School, Republic of Korea)