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KHRS 2025

The 17th Annual Scientific Session
of the Korean Heart Rhythm Society

Korean Heart Rhythm Society Secretariat
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PROGRAM BOOK

KHRS 2025

The 17th Annual Scientific Session
of the Korean Heart Rhythm Society

June 20 (Fri.) – 21 (Sat.), 2025
Grand Walkerhill Seoul, Korea

*Beyond Rhythm,
Better Life*



대한부정맥학회
Korean Heart Rhythm Society



MISSION

“Constantly Challenging and Being Fully Committed to
Protecting a Healthy Heart Rhythm”

“심장의 건강한 리듬을 지키기 위해
끊임없이 도전하고 헌신한다”

VISION

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

부정맥 극복을 위한 창의적 연구,
인재교육 및 국민인식개선을 통해
의료의 선진화를 주도해 나가는 학회



대한부정맥학회
Korean Heart Rhythm Society

SPONSORS

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GOLD



SILVER



BRONZE



FRIENDS



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Day 2 June 21 (Sat.)	

WELCOME MESSAGE

It is our great pleasure to invite all the distinguished guests to join us at KHRS 2025: The 17th Annual Scientific Session of the Korean Heart Rhythm Society, scheduled to take place from June 20 (Fri.) to 21 (Sat.), 2025, at the Grand Walkerhill Seoul. This year marks the 17th anniversary of the event.

Building on the success of KHRS 2024, this year's conference will feature a wider range of topics and innovative programs designed to share the latest insights and advance the field of arrhythmia. Through in-depth lectures and discussions with domestic and international experts, as well as practical, case-based educational sessions, we aim to present a new paradigm in arrhythmia treatment.

One of the highlights of this year's program is the PFA Update Session. Pulsed Field Ablation (PFA) has recently emerged as a groundbreaking technique in arrhythmia treatment. The PFA Update Session will provide a valuable opportunity to share the latest research findings, clinical applications, and foster in-depth discussions led by experts in the field.

We are also pleased to present a Special Session on Anatomy for Electrophysiology and CIED, jointly organized with the Cardiac Anatomy Study Group for KHRS, as well as a Special Session on Troubleshooting for Complex Cases. These sessions are designed to provide deeper anatomical understanding and practical strategies for managing complex clinical cases.

Signature sessions that have received overwhelming support in past years will return with even more enhanced and enriched content. We have also expanded opportunities for young professionals to learn, share, and grow within the global arrhythmia community.

In addition, KHRS 2025 will feature International Society Joint Sessions in collaboration with four global arrhythmia societies, sessions addressing the latest healthcare policies and guidelines, and CIED and SPAF sessions with in-depth discussions.

- Young EPs in Action: Interesting Case Competition
- International Case Competition
- YIA (Young Investigator Award) Competition
- Bootcamp for Residents/Fellows
- EKG Educational Course
- ECG Golden Bell

KHRS 2025 will serve as a vital venue in sharing cutting-edge technologies and innovative ideas, shaping the future of arrhythmia management. We warmly invite your active participation in KHRS 2025 and sincerely hope it will serve as a meaningful opportunity for researchers from around the world to gather, exchange academic insights, and foster lasting professional connections.

Sincerely,



Namho Kim

Nam-Ho Kim
Chairman of
Korean Heart Rhythm Society



Seil Oh

Seil Oh
President of
Korean Heart Rhythm Society



Eue Keun Choi

Eue Keun Choi
Scientific Committee Chair
of Korean Heart Rhythm Society

ORGANIZING COMMITTEE

Chairman, Board of Trustees	Nam-Ho Kim	Wonkwang University Hospital
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Vice President	Boyoung Joung	Yonsei University Severance Hospital
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Pediatrics-Congenital Cardiac Disease Committee Chair	Ji-Eun Ban	Sejong General Hospital
Allied Professional Chair	Hong Euy Lim	Chung-ang University Gwangmyeong Hospital
Ethics Committee Chair	Hyung-Wook Park	Chonnam National University Hospital
Audit Committee Chair	Dae Hyeok Kim	Inha University Hospital
Audit Committee Chair	Sang Weon Park	Sejong General Hospital
Young EP Committee Chair	Min Kim	Kangbuk Samsung Hospital
Nominating Committee Chair	Tae-Joon Cha	Kosin University Gospel Hospital
Interventional Electrophysiology Specialist Qualification Committee Chair	Nam-Ho Kim	Wonkwang University Hospital
International Service Committee Chair	Hui Nam Pak	Yonsei University Severance Hospital
Sudden Cardiac Death Committee Chair	Sangjin Han	Hallym University Medical Center

SCIENTIFIC COMMITTEE

Chair	Eue-Keun Choi	Seoul National University College of Medicine
	Young Keun On	Sungkyunkwan University, School of Medicine
Honorary Member	Sung-Won Jang	The Catholic University of Korea, College of Medicine
	Jin-Bae Kim	Kyung Hee University, School of Medicine
	Jong-Il Choi	Korea University College of Medicine
	So Ryoung Lee	Seoul National University College of Medicine
Executive Secretary	Min Soo Cho	University of Ulsan College of Medicine
Secretary	Ju Youn Kim	Sungkyunkwan University, School of Medicine
	Yun Gi Kim	Korea University College of Medicine
	Hee Tae Yu	Yonsei University College of Medicine
	Yong Soo Baek	Inha University School of Medicine
Member	Won-Seok Choe	Bucheon Sejong Hospital
	Young Choi	The Catholic University of Korea, College of Medicine
	Sung Il Im	Kosin University College of Medicine
	Dong Seop Jeong	Sungkyunkwan University, School of Medicine
	Dongmin Kim	Dankook University College of Medicine
	Min Kim	Sungkyunkwan University, School of Medicine
	Minsu Kim	Chungnam National University College of Medicine
	Sung-Hwan Kim	The Catholic University of Korea, College of Medicine
	Tae-Hoon Kim	Yonsei University College of Medicine
	Chang Hee Kwon	Konkuk University Professional Graduate School of Medicine
	Dae-In Lee	Korea University College of Medicine
	Euijae Lee	Bucheon Sejong Hospital
	Il-Young Oh	Seoul National University College of Medicine
	Jong-Sung Park	Dong-A University College of Medicine
	Junbeom Park	Ewha Womans University School of Medicine
	Young Jun Park	Yonsei University Wonju College of Medicine
	Juyong Seong	Korea University Anam Hospital
	Seung Yong Shin	Korea University College of Medicine
	Mi Kyoung Song	Seoul National University College of Medicine
	Jae-Sun Uhm	Yonsei University College of Medicine
	Namsik Yoon	Chonnam National University Medical School

INTERNATIONAL FACULTY MEMBERS

Australia	Prashanthan Sanders	University of Adelaide
	Mitchell Cowan	Cardiac Physiology in Practice
	Peter Kistler	Heart Centre at the Alfred Hospital
Belgium	Jan De Pooter	University Hospital Ghent
Cambodia	Rith Chandara	Calmette Hospital
Canada	Atul Verma	McGill University
China	Minglong Chen	The First Affiliated Hospital of Nanjing Medical University
Germany	Kyoung-Ryul Julian Chun	CCB Frankfurt
	Philipp Sommer	Heart and Diabetes Center NRW, University of Bochum
Hong Kong	Joseph Yat Sun Chan	Prince of Wales Hospital
	Erik Fung	THong Kong University of Science and Technology
	Hung-Fat Tse	The University of Hong Kong
India	Deep Chandh Raja. S	Kauvery Hospital
	Shunmuga Sundaram Ponnusamy	Velammal Medical College Hospital
	Suchit Majumdar	Apollo Multispeciality Hospitals, Kolkata
Indonesia	Arsha Pramudya	Hasna Medika Cirebon Hospital, Cirebon
Israel	Sami Viskin	Tel Aviv Sourasky Medical Center
Japan	Akihiko Nogami	Tokyo Heart Rhythm Hospital
	Akiko Ueda	Kyorin University Hospital
	Aya Miyazaki	Seirei Hamamatsu General Hospital
	Koichi Nagashima	Nihon University School of Medicine
	Kyoko Soejima	Kyorin University
	Miyako Igarashi	University of Tsukuba
	Satoshi Higuchi	Tokyo Women's Medical University
	Seiko Ohno	National Cerebral and Cardiovascular Center
	Shohei Kataoka	University of California, San Francisco
	Takanori Yamaguchi	Saga University
	Tetsuo Sasano	Institute of Science Tokyo
	Toshiaki Sato	Kyorin University
	Wataru Shimizu	New Tokyo Hospital
	Yasuo Okumura	Nihon University
	Yuki Komatsu	University of Tsukuba
Mongolia	Saruul Tseveendee	Third State Hospital
	Pagmadulam Sukhbaatar	Mongol Japan Hospital of Mongolian National University of Medical Sciences (MNUMS)
	Zolzaya Darambold	Nomiun Hospital

Singapore	Chi Keong Ching	National Heart Centre Singapore
	Jie-Ying	National University Hospital
Taiwan	Fa-Po Chung	Taipei Veterans General Hospital
	I-Chen Chen	Cheng-Hsin General Hospital
	Li-Wei Lo	Taipei Veterans General Hospital
	Tze-Fan Chao	Taipei Veterans General Hospital
	Wei Chung Tsai	Kaohsiung Medical University
	Yenn-Jiang Lin	Taichung Veterans General Hospital
	Thailand	Koonlawee Nademanee
Ronpichai Chokesuwattanaskul		Chulalongkorn hospital
Tachapong Ngarmukos		Medicine Ramathibodi Hospital, Mahidol University
United Kingdom	Gregory Lip	University of Liverpool
United States	Chun Hwang	CS Foundation
	Itzhak Zachi Attia	Mayo Clinic
	Mina Chung	Cleveland Clinic
	Sung Woo Lee	MedStar Washington Hospital Center
	Oussama Wazni	Cleveland Clinic
	Mitchell Cohen	Inova LJ Murphy Children's Hospital
	Vivek Y. Reddy	Mount Sinai Fuster Heart Hospital
	Devi Nair	St. Bernards Medical Centre, Jonesboro
	Hee Cheol Cho	Johns Hopkins University
	Melvin M. Scheinman	University of California San Francisco
	Patrick T. Ellinor	Massachusetts General Hospital

FLOOR PLAN

B2 Vista Hall

Room 1 (Vista 1)

Special Session: Anatomy for Electrophysiology and CIED
Atrial Fibrillation 2, 3, 4
Scientific Session
Opening Ceremony
Plenary Session
CIED 2
Latest Advances in Guidelines
PFA Update Session
SPAF-LAAO joint with SPRINT
Closing Ceremony

Room 2 (Vista 2)

SPAF 1
CIED 1
Digital Health
Industry Session
IJA(Official Journal of KHRS) Session
General Assembly
Cross Specialty 2

Room 3 (Vista 3)

Atrial Fibrillation 1
International Society Joint Session 1, 2, 3
Scientific Session
Ventricular Tachycardia 1, 2
International Case Competition
SCD 2

Coffee Station

Exhibition

Poster Zone

연수평점 바코드 리더기



B1 Grand Hall

Room 6 (Grand 4)

- Basic
- SCD 1
- Pediatric
- Industry Session
- Bootcamp for Residents/Fellows
- Sports Cardiology
- Green EP

Room 7 (Grand 5)

- YIA Competition
- Oral Abstract 1, 2, 3, 4, 5
- Young EPs in Action
- Industry Session

- Registration Desk
- Sponsor Suite
- Speaker's Lounge
- Preview Room
- Grand 6 (Meeting Room)
- Info Desk
- Coffee Station

연수평점 바코드 리더기



1F Walker Hall

Room 4 (Walker 1)

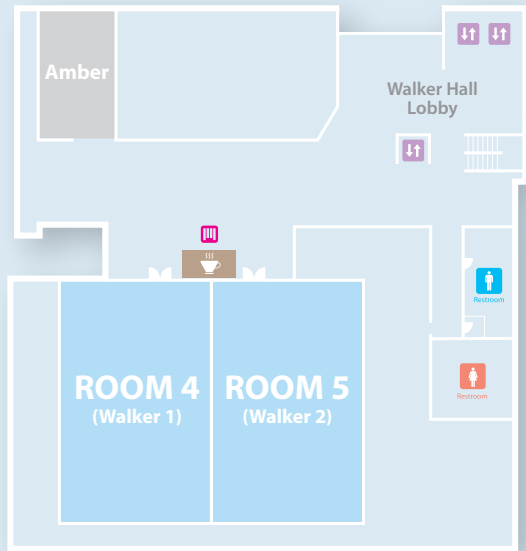
- EKG Educational Course 1, 2
- Cross Specialty 1
- EGM Tracing 1, 2
- ECG Golden Bell
- MR Education
- Arrhythmia Review Course 1, 2

Room 5 (Walker 2)

- PSVT 1, 2
- Health Policy
- SPAF 2
- Special Session: Troubleshooting for Complex Cases
- Allied Professional 1, 2
- CIED 3, 4

Coffee Station

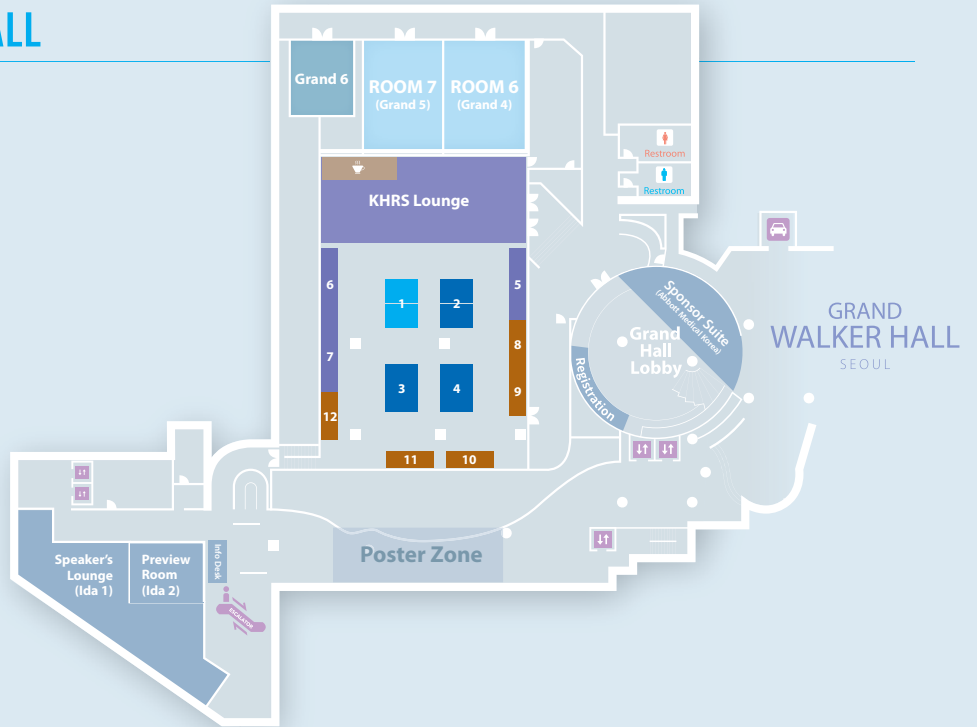
연수평점 바코드 리더기



EXHIBITOR LIST

B1 GRAND HALL

- DIAMOND +
- DIAMOND
- PLATINUM
- GOLD



B2 VISTA HALL

- SILVER
- BRONZE
- FRIENDS



EXHIBITION

Company Name	Booth No.	Location
Abbott Korea	14	B2 Vista Hall Lobby
Abbott Medical Korea	2	B1 Grand Hall Foyer
APT Medical	28	B2 Vista Hall Lobby
Atsens Co., Ltd.	15	B2 Vista Hall Lobby
BAYER KOREA	9	B1 Grand Hall Foyer
BIOTRONIK Korea	18	B2 Vista Hall Lobby
BMS Korea & Pfizer Korea	7	B1 Grand Hall Foyer
Boston Scientific Korea Co., Ltd.	6	B2 Vista Hall Lobby
CGBIO	29	B2 Vista Hall Lobby
Chong kun dang & CELLTRION PHARM	4	B1 Grand Hall Foyer
Daiichi Sankyo Korea & DAEWOONG PHARM	1	B2 Vista Hall Lobby
DONG-A ST	21	B2 Vista Hall Lobby
Dongkook Pharmaceutical	23	B2 Vista Hall Lobby
GE HealthCare	19	B2 Vista Hall Lobby
GSK KOREA	32	B2 Vista Hall Lobby
Hanlim Pharm	17	B2 Vista Hall Lobby
Hanmi pharm	8	B1 Grand Hall Foyer
HUINNO	10	B2 Vista Hall Lobby
Japan Lifeline	24	B2 Vista Hall Lobby
Johnson & Johnson MedTech	5	B1 Grand Hall Foyer
KYUNGPOONG-ELYSON	22	B2 Vista Hall Lobby
Medtronic Korea	3	B1 Grand Hall Foyer
Menarini Korea	30	B2 Vista Hall Lobby
Mitsubishi Tanabe Pharma Korea	25	B2 Vista Hall Lobby
Novartis Korea	13	B2 Vista Hall Lobby
OMRON Healthcare	26	B2 Vista Hall Lobby
Samjin Pharm.	11	B1 Grand Hall Foyer
Sanofi	12	B2 Vista Hall Lobby
Seers Technology Co., Ltd.	31	B2 Vista Hall Lobby
The Standard Co., Ltd.	27	B2 Vista Hall Lobby
Viartis Korea	20	B2 Vista Hall Lobby
VUNO Inc.	16	B2 Vista Hall Lobby

평점안내 (Korean Only)

※ 대한의사협회 승인 평점 (부분평점: 최소 1점 ~ 최대 6점)

2016년 2월부터 대한의사협회 '제2016-1호' 연수교육 지침에 따라, 본인 여부 및 출결 사항 확인을 시행합니다. 평점인정 기준이 강화됨에 따라 안내사항을 참고하시어 평점 인정에 불이익이 없도록 협조를 부탁드립니다.

1. 교수 및 개원의, 전임의, 전공의, 기타등록자(의사면허 소지자로 등록 시 기재한 자)에 한합니다.
2. 전자출결 시스템 사용(입실, 퇴실 확인)을 기준으로 체류시간에 따라 평점이 인정됩니다.
3. 정확한 출결 기록이 남지 않는 경우, 해당 시간에 대한 평점 인정이 어려울 수 있으니, 상기 내용 미리 숙지 바랍니다.
4. 비강의 시간(휴식, 식사, 개회식/폐회식 등)은 평점 인정이 되지 않습니다.

구 분	연수평점	
	6월 20일(금)	6월 21일(토)
대한의사협회	6점	6점
대한내과학회 분과전문의	분과전문의 자격 갱신	2점
	자격 인정 시험	1회 인정
내과전공의 외부학술회의(학술대회)	2점	
임상병리사(의료기사)	1점	

연수평점 인증 기준

▶ 대한의사협회 평점인정시간 ※ 하루 최소 1점~최대 6점 인정

체류시간	연수평점	주의사항
1시간 미만	인정 불가	- 6월 20일(금)-21일(토)에만 평점 인정 - 최대 12점까지 가능(하루 최대 6점 인정)
1시간 이상 - 2시간 미만	1점	
2시간 이상 - 3시간 미만	2점	
3시간 이상 - 4시간 미만	3점	
4시간 이상 - 5시간 미만	4점	
5시간 이상 - 6시간 미만	5점	
6시간 이상	6점	

▶ 분과전문의 시험/갱신 관련 분과학회 정기 학술대회 참석 현황 연동

본 학회는 대한내과학회 분과전문의 인정학회로서, 해당 학술대회에 참석하시면 개인 평점 확인 페이지에 학술대회 참석내역이 연동되어 내과분과전문의 자격인정시험 또는 자격갱신 시 사용 가능합니다.

구분	인정내용	주의사항
자격인정시험 응시	학술대회 참석 시 1회	- 6월 20일(금)-21일(토)에만 인정 * 분과전문의 연수교육 평점이 아닌 자격인정시험 응시 및 갱신 관련 학술대회 인정 기준입니다. * 대한의사협회 평점과는 무관합니다.
자격갱신 신청	학술대회 참석 시 1일 2평점	

▶ 내과전공의 외부학술회의(학술대회)

체류 시간	연수평점	주의사항
오전 3시간	1점	- 6월 20일(금)-21일(토)에만 인정 - 이를 동안 최대 2점 인정 * 내과전공의 외부학술회의(학술대회) 평점은 전공의에 한합니다.
오후 3시간	1점	

▶ 임상병리사(의료기사)

체류 시간	연수평점	주의사항
1시간 이상	1점	- 6월 20일(금)-21일(토)에만 인정 - 이를 동안 최대 1점 인정

EXHIBITION TOUR EVENT

Date: June 20 (Fri.) ~ 21 (Sat.) 17:00, 2025

Visit
Exhibition Booths
and
Receive a Prize!

Gift Card

Gift Card

How to Participate

- 1 Visit exhibition booths
- 2 Participate in simple missions
- 3 Receive a sticker and stick them on the back of your name badge
- 4 Gather at least 15 stickers and visit Registration Desk
- 5 Receive your prize

*Prizes will be sent to participants after KHRS 2025



LUCKY DRAW EVENT

Date: June 21 (Sat.) 16:40, 2025 (Closing Ceremony)

Don't miss the chance to win
Robot Vacuum Cleaner,
Wireless Speaker,
Scalp & Hair Care Brush
and more at the Lucky Draw!

How to join

1. Attend the Closing Ceremony
2. Receive a Lucky Draw ticket at the entrance
3. Sit back and wish for good luck



PROGRAM-AT-A-GLANCE

June 20 (Fri.)
KHRS 2025 Day 1

Time / Room	Room 1 (Vista 1, B2)	Room 2 (Vista 2, B2)	Room 3 (Vista 3, B2)	Room 4 (Walker Hall 1, 1F)
8:30-10:00 (90')	Special Session: Anatomy for Electrophysiology and CIED (Joint Session with Cardiac Anatomy Study Group for KHRS) KOR	SPAF 1: What's New in SPAF?	Atrial Fibrillation 1: Advances in AF Diagnosis and Characterization	EKG Educational Course 1 KOR
10:00-10:15 (15')	Break			
10:15-11:45 (90')	Atrial Fibrillation 2: Challenging Catheter Ablation for Persistent AF	CIED 1: Optimization of Clinical Practice on Conduction System Pacing		EKG Educational Course 2 KOR
11:45-12:00 (15')	Break			
12:00-12:50 (50')	Scientific Session Abbott Medical Korea		Scientific Session Chong kun dang & CELLTRION PHARM KOR	
12:50-13:00 (10')	Break			
13:00-13:10 (10')	Opening Ceremony			
13:10-14:40 (90')	Plenary Session		Ventricular Tachycardia 1: Approach for VT Management	Cross Specialty 1: Cardioembolic Stroke and ESUS KOR
14:40-14:55 (15')	Break			
14:55-16:25 (90')	Atrial Fibrillation 3: Latest Advances in Catheter Ablation for AF	Digital Health: AI in EP	International Society Joint Session 1 (HRS): Transforming AF Management: Insights from Recent Clinical Trials	EKG Tracing 1: Narrow QRS Tachycardia
16:25-16:40 (15')	Break			
16:40-18:10 (90')	CIED 2: Cardiac Resynchronization in the Era of Conduction System Pacing	Industry Session Abbott Medical Korea 16:40-17:10 KOR Break (30') Industry Session Boston Scientific Korea Co., Ltd. 17:40-18:10	International Society Joint Session 2 (THRS): Shaping the Advance in AF Management	EKG Tracing 2: Wide QRS Tachycardia

*Sessions will be conducted in English.
(A few sessions will be in Korean)

Room 5 (Walker Hall 2, 1F)	Room 6 (Grand 4, B1)	Room 7 (Grand 5, B1)	Time / Room
PSVT 1: Differentiation of Complex SVT	Basic: Development and Implementation of an Arrhythmia Animal Model	YIA Competition	8:30-10:00 (90')
	Break		10:00-10:15 (15')
PSVT 2: Treatment of SVT	SCD 1: Understanding Epidemiology and Etiology of SCD	Oral Abstract 1: AF	10:15-11:45 (90')
	Break		11:45-12:00 (15')
			12:00-12:50 (50')
	Break		12:50-13:00 (10')
			13:00-13:10 (10')
Health Policy KOR	Pediatric: VT and SCD in Repaired Congenital Heart Disease	Young EPs in Action: Interesting Case Competition	13:10-14:40 (90')
	Break		14:40-14:55 (15')
SPAF 2: Anticoagulation in Special Settings	Industry Session KOR Daiichi Sankyo Korea & DAEWOONG PHARM 14:55-15:25	Oral Abstract 2: AF	14:55-16:25 (90')
	Break (30')		
	Industry Session KOR Daiichi Sankyo Korea & DAEWOONG PHARM 15:55-16:25		
	Break		16:25-16:40 (15')
Special Session: Troubleshooting for Complex Cases	Industry Session Johnson & Johnson MedTech 16:40-17:10	Oral Abstract 3: BASIC/TRANSLATIONAL SCIENCE, CIED	16:40-18:10 (90')
	Break (30')		
	Industry Session KOR Samjin Pharm. 17:40-18:10		

PROGRAM-AT-A-GLANCE

June 21 (Sat.)
KHRS 2025 Day 2

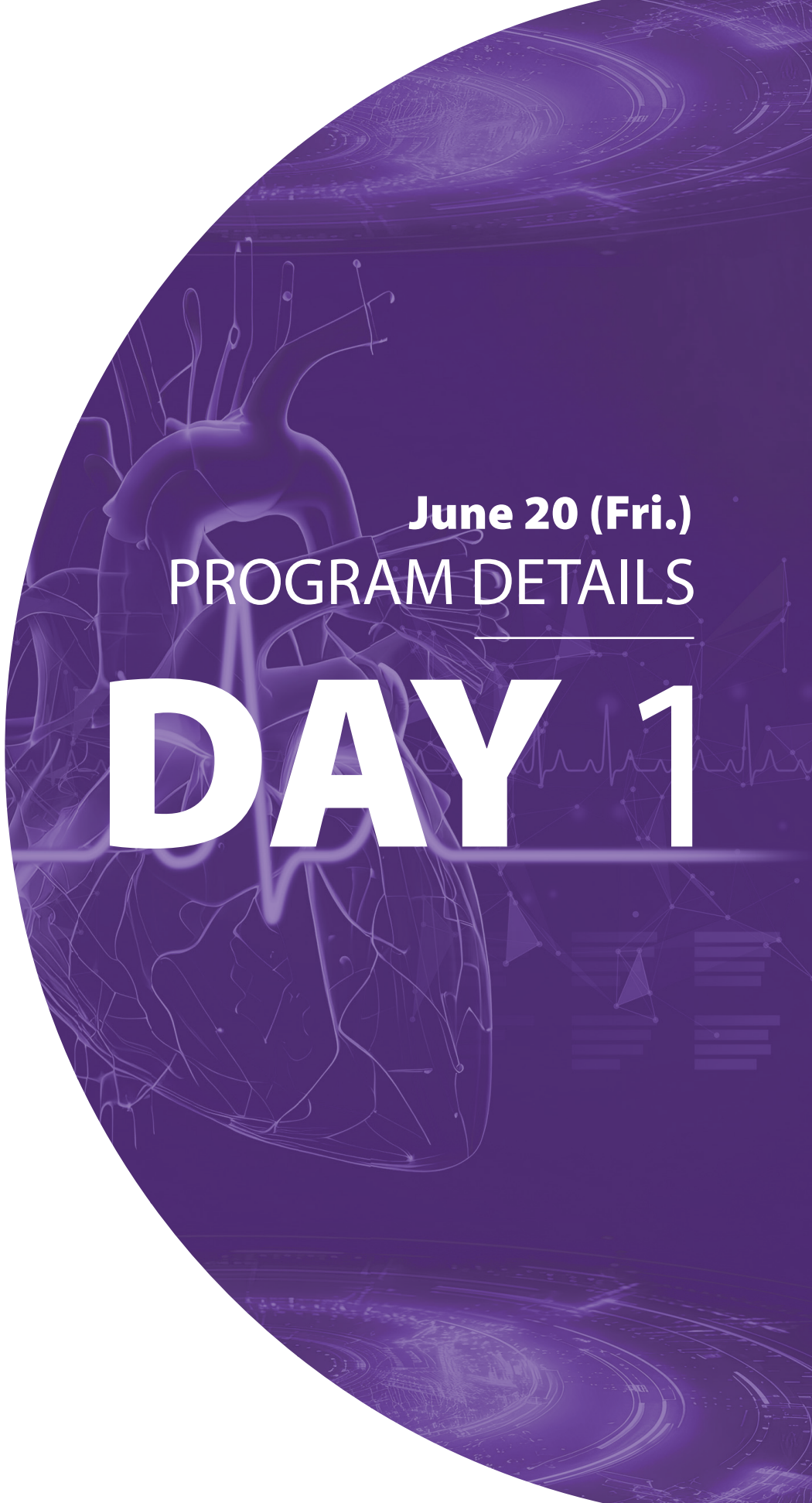
Time / Room	Room 1 (Vista 1, B2)	Room 2 (Vista 2, B2)	Room 3 (Vista 3, B2)	Room 4 (Walker Hall 1, 1F)
8:30-10:00 (90')	Latest Advances in Guidelines: Practical Insights from the Latest Guidelines	IJA(Official Journal of KHRS) Session	International Case Competition: Challenging EP Cases	ECG Golden Bell KOR
10:00-10:15 (15')	Break			
10:15-11:45 (90')	PFA Update Session: Advancements in PFA Technology: Debates, Applications, and Future Directions		Ventricular Tachycardia 2: Cutting-Edge Techniques for VT Ablations	MR Education KOR
11:45-12:00 (15')	Break			
12:00-12:50 (50')	Scientific Session Daiichi Sankyo Korea & DAEWOONG PHARM KOR		Scientific Session Medtronic Korea	
12:50-13:00 (10')		General Assembly KOR		
13:00-13:10 (10')	Break			
13:10-14:40 (90')	Atrial Fibrillation 4: Holistic Approach to AF Care	Cross Specialty 2: Current Updates in Arrhythmia Surgery KOR	International Society Joint Session 3 (JHRS): The Cardiac Conduction System: Implications in Both Physiology and Pathology	Arrhythmia Review Course 1: Basic, Bradycardia and Pacemaker KOR
14:40-14:55 (15')	Break			
14:55-16:25 (90')	SPAF-LAAO joint with SPRINT	Industry Session Medtronic Korea 14:55-15:25 Break (30') Industry Session Sanofi 15:55-16:25 KOR	SCD 2: Innovations in SCD Management	Arrhythmia Review Course 2: Narrow and Wide QRS Tachycardia Cases KOR
16:25-16:40 (15')	Break			
16:40-17:10 (30')	Closing Ceremony			

*Sessions will be conducted in English.
(A few sessions will be in Korean)

Room 5 (Walker Hall 2, 1F)	Room 6 (Grand 4, B1)	Room 7 (Grand 5, B1)	Time / Room
Allied Professional 1: Clinical Electrophysiology	Industry Session KOR Chong kun dang & CELLTRION PHARM 08:30-09:00	Oral Abstract 4: CIED	8:30-10:00 (90')
	Break (30')		
	Industry Session KOR HUIJINO 09:30-10:00		
Break			10:00-10:15 (15')
Allied Professional 2: Cardiovascular Implantable Electronic Device	ENG/KOR Bootcamp for Residents/Fellows: Toward Basics in Cardiac Electrograms	Oral Abstract 5: DIGITAL HEALTH, SCD, GENETICS, VT	10:15-11:45 (90')
	Break		11:45-12:00 (15')
			12:00-12:50 (50')
			12:50-13:00 (10')
Break			13:00-13:10 (10')
CIED 3: Making Leadless Pacemakers Fearless	Sports Cardiology: Key Points of ECG Interpretation in Athletes	Industry Session ENG/KOR BMS Korea & Pfizer Korea 13:10-13:40	13:10-14:40 (90')
		Break (30')	
		Industry Session KOR BAYER KOREA 14:10-14:40	
Break			14:40-14:55 (15')
CIED 4: Brand-New Applications of Cardiac Implantable Electronic Devices	Green EP: Sustainability of the EP	Industry Session KOR Hanmi pharm 14:55-15:25	14:55-16:25 (90')
		Break	
			16:40-17:10 (30')

KHRS 2025

**The 17th Annual Scientific Session
of the Korean Heart Rhythm Society**



June 20 (Fri.)
PROGRAM DETAILS

DAY 1

PROGRAM DETAILS

June 20 (Fri.)

SPECIAL SESSION

08:30 - 10:00 | Room 1 (Vista 1) | KOR

Anatomy for Electrophysiology and CIED (Joint Session with Cardiac Anatomy Study Group for KHRS)

Chair **Jeong-Wook Seo** (Incheon Sejong Hospital, Republic of Korea)
Sang Weon Park (Bucheon Sejong Hospital, Republic of Korea)

Speaker **Anatomy & Embryology of the Atria**
Jieun Ban (Bucheon Sejong Hospital, Republic of Korea)

Anatomy & Embryology of the Ventricle
Jakyoung Yoon (School of Medicine, Sungkyunkwan University, Republic of Korea)

Anatomy Lesson Using Heart Specimen for Conduction System Pacing
Jinsun Park (Hanyang University College of Medicine, Republic of Korea)
Jeong-Wook Seo (Incheon Sejong Hospital, Republic of Korea)

Anatomy Lesson Using Heart Specimen for Catheter Ablation
Sung Hwa Choi (Gachon University School of Medicine, Republic of Korea)
Jeong-Wook Seo (Incheon Sejong Hospital, Republic of Korea)

Learning Objective

- 1) 심장의 해부와 발생에 대해 이해한다.
- 2) Conduction system pacing 시술에 숙지하여야 할 심장 구조에 대해 이해한다.
- 3) 카테터 절제술시 숙지하여야 할 심장 구조에 대해 이해한다.

SPAF 1

08:30 - 10:00 | Room 2 (Vista 2) | ENG

What's New in SPAF?

Moderator Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)

Chair Kee-Joon Choi (University of Ulsan College of Medicine, Republic of Korea)
Myung Yong Lee (Dankook University College of Medicine, Republic of Korea)
Li-Wei Lo (Taipei Veterans General Hospital, Taiwan)

Panel Dong-Seon Kang (College of Medicine, Hallym University, Republic of Korea)
Do Young Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)
Hong-Ju Kim (Yeungnam University College of Medicine, Republic of Korea)
Seung-Young Roh (Korea University College of Medicine, Republic of Korea)

Speaker **Honorary FKHS Special Lecture: Where Are We Now? State of the Art in Stroke Prevention for AF**
Gregory Lip (University of Liverpool, United Kingdom)

Who Benefits the Most from Detecting and Treating Subclinical AF?
Tae-Wan Chung (Keimyung University School of Medicine, Republic of Korea)

What Is the Evolving Role of AI in SPAF?
Yong Soo Baek (Inha University School of Medicine, Republic of Korea)

Why Is Atrial Myopathy Important in Stroke Prevention for AF?
Moon-Hyun Kim (Yonsei University College of Medicine, Republic of Korea)

Integrating Lifestyle Modification in Stroke Prevention for AF: Where Do We Stand?
Prashanthan Sanders (University of Adelaide, Australia)

Learning Objective

- 1) Gain an up-to-date understanding of stroke prevention strategies in patients with atrial fibrillation, including recent advances and evolving treatment approaches.
- 2) Explore the clinical implications of emerging concepts such as subclinical atrial fibrillation, atrial cardiomyopathy, and the application of artificial intelligence in SPAF management.

PROGRAM DETAILS

June 20 (Fri.)

ATRIAL FIBRILLATION 1

08:30 - 10:00 | Room 3 (Vista 3) | ENG

Advances in AF Diagnosis and Characterization

Chair **Hui-Nam Pak** (Yonsei University College of Medicine, Republic of Korea)
Jae-Jin Kwak (Seoul Medical Center, Republic of Korea)

Panel **Chang Hee Kwon** (Konkuk University Professional Graduate School of Medicine, Republic of Korea)
Dongmin Kim (Dankook University College of Medicine, Republic of Korea)
Dong-Hyeok Kim (Ewha Womans University School of Medicine, Republic of Korea)
Chang-Ok Seo (Korea University College of Medicine, Republic of Korea)

Speaker **Recent Update in AF Epidemiology**
Daehoon Kim (Yonsei University College of Medicine, Republic of Korea)

Histopathological Insights into Atrial Structural Remodeling and the Substrate for AF
Takanori Yamaguchi (Saga University, Japan)

AI-Driven Clinical, Genetic, and ECG Insights into AF Risk
Patrick T. Ellinor (Massachusetts General Hospital, United States)

Utilization of AI ECG Algorithm for AF Prediction
Junbeom Park (Ewha Womans University School of Medicine, Republic of Korea)

CHIP's Impact on AF Progression and Clinical Outcomes
Hyo-Jeong Ahn (Seoul National University College of Medicine, Republic of Korea)

Learning Objective

- 1) Understand the latest trends in atrial fibrillation epidemiology and their clinical significance.
- 2) Explore the pathological basis of atrial structural remodeling and its contribution to the arrhythmic substrate.
- 3) Examine the role of artificial intelligence in predicting, diagnosing, and risk stratifying atrial fibrillation using clinical, genetic, and ECG data.

EKG EDUCATIONAL COURSE 1

08:30 - 10:00 | Room 4 (Walker 1) | KOR

Chair **Byung-Chun Jung** (Daegu Fatima Hospital, Republic of Korea)
Hwan-Cheol Park (Hanyang University College of Medicine, Republic of Korea)

Speaker **Initiating ECG Interpretation from Normal Patterns**
Tae-Seok Kim (Chungnam National University College of Medicine, Republic of Korea)

Atrial Enlargement and Ventricular Hypertrophy
Jong Sung Park (Kyungpook National University School of Medicine, Republic of Korea)

Premature Beat and Bundle Branch Block
Hyoungseok Lee (Korea University College of Medicine, Republic of Korea)

ECG in Ischemic Heart Diseases
Hee-Jin Kwon (Chungnam National University College of Medicine, Republic of Korea)

All about Bradycardia
Min-Su Jung (Keimyung University School of Medicine, Republic of Korea)

Learning Objective

- 1) 정상 심전도 파형의 의미와 특징을 정확히 이해하고 이를 바탕으로 심방 확대, 심실 비대, 조기 박동, 각차단 등 주요 비정상 소견을 알아봅니다.
- 2) 허혈성 심장 질환에서 나타나는 심전도 변화를 숙지합니다.
- 3) 서맥으로 나타나는 다양한 심전도 진단을 체계적으로 학습합니다.

PROGRAM DETAILS

June 20 (Fri.)

PSVT 1

08:30 - 10:00 | Room 5 (Walker 2) | ENG

Differentiation of Complex SVT

Chair **June Huh** (School of Medicine, Sungkyunkwan University, Republic of Korea)
Gyo-Seung Hwang (Ajou University School of Medicine, Republic of Korea)

Panel **Jae-Hyun Kim** (Seoul National University College of Medicine, Republic of Korea)
Kyongjin Min (Incheon Sejong Hospital, Republic of Korea)
Han-Joon Bae (Daegu Catholic University College of Medicine, Republic of Korea)

Speaker **Electrophysiological Comparison of SVTs with Concealed Nodoventricular Pathway**
Jeong-Wook Park (College of Medicine, The Catholic University of Korea, Republic of Korea)

Narrow QRS Tachycardia via an Unusual Accessory Pathway
Koichi Nagashima (Nihon University School of Medicine, Japan)

Fasciculoventricular Pathway: A True Bystander or Newly Discovered Reentrant Substrate
Young Shin Lee (School of Medicine, Kyung Hee University, Republic of Korea)

Atrial Pacing Maneuvers for Diagnosis of Verapamil Sensitive AT
Chi Keong Ching (National Heart Centre Singapore, Singapore)

The Upper Common Pathway in Atrioventricular Nodal Reentrant Tachycardia
Young Choi (College of Medicine, The Catholic University of Korea, Republic of Korea)

Learning Objective

- 1) Learn how to manage difficult or recurrent PSVT cases.
- 2) Obtain practical tips on how to ablate rare and difficult supraventricular tachycardias.
- 3) Experience cutting-edge mapping, differentiation, and ablation strategies.

BASIC

08:30 - 10:00 | Room 6 (Grand 4) | ENG

Development and Implementation of an Arrhythmia Animal Model

Chair **June Namgung** (Inje University College of Medicine, Republic of Korea)
Satoshi Higuchi (Tokyo Women's Medical University, Japan)

Panel **In-Soo Kim** (Yonsei University College of Medicine, Republic of Korea)
Kiyung Boo (Jeju National University School of Medicine, Republic of Korea)
Chan-Hee Lee (Yeungnam University College of Medicine, Republic of Korea)
Sung Il Im (Kosin University College of Medicine, Republic of Korea)

Speaker **Biological Pacing via Gene Modulation: Current Status and Future Directions**
Hee Cheol Cho (Johns Hopkins University, United States)

Updates of Autonomic Modulation of Atrial Fibrillation
Wei Chung Tsai (Kaohsiung Medical University, Taiwan)

Shorter Premature Atrial Complex Coupling Interval Leads to Mechanical Dysfunction, Fibrosis, and AF in Swine
Satoshi Higuchi (Tokyo Women's Medical University, Japan)

Exploring the Therapeutic Potential of Intermittent Hypoxia in an AF Model
Hyewon Park (Ewha Medical Research Institute, Republic of Korea)

Novel Laparoscopic Renal Denervation Cuts AF in Swine
Soonil Kwon (Seoul National University College of Medicine, Republic of Korea)

Learning Objective

- 1) To learn gene modulation for Biological pacing at present and in the future.
- 2) To learn autonomic modulation against AF including renal denervation in animal model.
- 3) To learn the impact of premature atrial contraction physiology on the mechanical dysfunctions and pathologic changes for AF in animal models.
- 4) To learn the effect of intermittent hypoxia as therapeutic potentials for AF.

PROGRAM DETAILS

June 20 (Fri.)

VIA COMPETITION

08:30 - 10:00 | Room 7 (Grand 5) | ENG

Chair **Eue-Keun Choi** (Seoul National University College of Medicine, Republic of Korea)
Tachapong Ngarmukos (Medicine Ramathibodi Hospital, Mahidol University, Thailand)

Judge **Hyung Wook Park** (Chonnam National University Medical School, Republic of Korea)
Jae-Sun Uhm (Yonsei University College of Medicine, Republic of Korea)
Itzhak Zachi Attia (Mayo Clinic, United States)
Fa-Po Chung (Taipei Veterans General Hospital, Taiwan)
Koonlawee Nademane (Center of Excellence Arrhythmia Research Chulalongkorn University, Thailand)
Mina Chung (Cleveland Clinic, United States)
Oussama Wazni (Cleveland Clinic, United States)

Presenter **Machine-Learning Prediction of Premature Ventricular Complex Burden Using Serial Holter Monitoring: A Multi-Center Study**

Soonil Kwon (Seoul National University College of Medicine, Republic of Korea)

Comparison of Artificial Intelligence-derived Heart Age with Chronological Age Using Normal Sinus Electrocardiograms in Patients with No Evidence of Cardiac Disease

Myoung Jung Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

Associations between Device-Measured 24-Hour Movement Behaviors and Cardiac Conduction Disease in the UK Biobank Cohort

Min Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

Development and Validation of a Protein Risk Score for Sudden Cardiac Death and Related Intermediate Phenotypes

Hanjin Park (Yonsei University College of Medicine, Republic of Korea)

Long-term Outcomes of Cavotricuspid Isthmus Ablation in Atrial Fibrillation Patients Exhibiting Drug-Induced Conversion to Atrial Flutter

JungMin Choi (Seoul National University College of Medicine, Republic of Korea)

Ventricular Arrhythmogenesis in Noise Exposure: Role of Autonomic Remodeling and Subcutaneous Nerve Activity

Chao-Yi Chen (Kaohsiung Medical University, Taiwan)

AI-Enhanced Chaos Modeling of Beat-to-Beat Ventricular Repolarization Entropy for Early Prediction of Malignant T-Wave Alternans in Genotype-Negative Long QT Syndrome

Prihantini Prihantini (The Integrated Mathematical, Computational, and Data Science for BioMedicine Research Foundation, Indonesia)

ATRIAL FIBRILLATION 2

10:15 - 11:45 | Room 1 (Vista 1) | ENG

Challenging Catheter Ablation for Persistent AF

Chair **Yong Seog Oh** (College of Medicine, The Catholic University of Korea, Republic of Korea)
Doosang Kim (Veterans Health Service Medical Center, Republic of Korea)
Yasuo Okumura (Nihon University, Japan)

Panel **Soyoon Park** (College of Medicine, The Catholic University of Korea, Republic of Korea)
Young-Sun Park (University of Ulsan College of Medicine, Republic of Korea)
Hyo-Jeong Ahn (Seoul National University College of Medicine, Republic of Korea)
Sung Hwa Choi (Gachon University School of Medicine, Republic of Korea)

Speaker **Phenotypes and Ablation Outcomes in Persistent Atrial Fibrillation: Insights from the CAPLA Study**
Peter Kistler (Heart Centre at the Alfred Hospital, Australia)

Revolutionizing Persistent AF Evaluation: Cryoballoon Ablation and the Shift in Burden Assessment
Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)

Beyond Pulmonary Vein Isolation: The STABLE-SR Approach to Non-Paroxysmal AF
Minglong Chen (The First Affiliated Hospital of Nanjing Medical University, China)

AF Treatment in HFrEF: Catheter Ablation vs. Pace and AVN Ablation Strategy
Hanjin Park (Yonsei University College of Medicine, Republic of Korea)

CTI, SVC, and Ligament of Marshall Ablation for Persistent AF
Hyoung-Seob Park (Keimyung University School of Medicine, Republic of Korea)

Learning Objective

- 1) Understand the pathophysiological heterogeneity and clinical phenotypes of persistent AF, and their implications on ablation outcomes.
- 2) Explore novel strategies beyond pulmonary vein isolation, including substrate modification and adjunctive ablation techniques.
- 3) Compare treatment approaches for persistent AF in patients with heart failure, including rhythm versus rate control strategies.

PROGRAM DETAILS

June 20 (Fri.)

CIED 1

10:15 - 11:45 | Room 2 (Vista 2) | ENG

Optimization of Clinical Practice on Conduction System Pacing

Chair
Daehee Shin (Design Hospital, Republic of Korea)
Jung Hoon Sung (CHA University, Republic of Korea)
Ronpichai Chokesuwattanaskul (Chulalongkorn hospital, Thailand)

Panel
Dong Hyun Kim (University of Ulsan College of Medicine, Republic of Korea)
Sang Jun Lee (Yonsei University Wonju College of Medicine, Republic of Korea)
Jinhee Choi (Pusan National University School of Medicine, Republic of Korea)
Jongmin Hwang (Keimyung University School of Medicine, Republic of Korea)

Speaker
Understanding the Anatomy of the Conduction System: Key Insights for Successful Conduction System Pacing
Min Soo Cho (University of Ulsan College of Medicine, Republic of Korea)

How to Successfully Implant Conduction System Pacing: Practical Approach with Technical Tips and Tricks
Jan De Pooter (University Hospital Ghent, Belgium)

LBB Pacing Criteria: A Critical Look at Current Criteria for Left Bundle Branch Capture
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)

Extraction Techniques in Conduction System Pacing: Navigating Challenges in Device Extraction
Shunmuga Sundaram Ponnusamy (Velammal Medical College Hospital, India)

Follow-Up Strategies for Conduction System Pacing: Differentiating Approaches from Traditional Pacing
Juwon Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

Learning Objective

- 1) Understand the anatomical landmarks and essential techniques for successful conduction system pacing.
- 2) Review current implantation strategies, diagnostic criteria, and extraction techniques in conduction system pacing.
- 3) Learn long-term follow-up and management strategies specific to conduction system pacing.

EKG EDUCATIONAL COURSE 2

10:15 - 11:45 | Room 4 (Walker 1) | KOR

Chair Sangjin Han (College of Medicine, Hallym University, Republic of Korea)
Moon-Hyoung Lee (Yonsei University College of Medicine, Republic of Korea)

Speaker **Narrow QRS Tachycardia**
Kyongjin Min (Incheon Sejong Hospital, Republic of Korea)

Wide QRS Tachycardia
Tae-Wan Chung (Keimyung University School of Medicine, Republic of Korea)

ECG in Patients with Inherited Arrhythmias
Jin Kyung Hwang (Veterans Health Service Medical Center, Republic of Korea)

ECG in Patients with CIED
So Young Yang (School of Medicine, Kyung Hee University, Republic of Korea)

Smartwatch and Wearable Device ECG
Hwa Jung Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)

Learning Objective

- 1) 다양한 심전도 예시를 통해서 각 빈맥의 심전도 특성을 익힙니다. 이를 통해 빈맥을 정확히 판독할 수 있는 능력을 기릅니다.
- 2) 유전성 부정맥과 심장전기장치의 심전도 특징을 살펴봅니다.
- 3) 최근에 자주 활용되는 웨어러블 심전도의 특성을 이해하고 판독하는 요령을 익힙니다.

PROGRAM DETAILS

June 20 (Fri.)

PSVT 2

10:15 - 11:45 | Room 5 (Walker 2) | ENG

Treatment of SVT

Chair
Kee-Joon Choi (University of Ulsan College of Medicine, Republic of Korea)
Kyoung-Suk Rhee (Chonbuk National University Medical School, Republic of Korea)
Koichi Nagashima (Nihon University School of Medicine, Japan)

Panel
Ki-Woon Kang (Chung-Ang University College of Medicine, Republic of Korea)
Mi Kyoung Song (Seoul National University College of Medicine, Republic of Korea)
Woo-seok Lee (Yeosu Jeil Hospital, Republic of Korea)

Speaker
New Ablation Strategies Targetting Slow Pathway for Treatment of AVNRT
Sung Soo Kim (Chosun University College of Medicine, Republic of Korea)

Mapping Strategies for Isolated Accessory Pathway Potential
Won-Seok Choe (Bucheon Sejong Hospital, Republic of Korea)

Diagnoses and Ablation of Nodo-Ventricular/Fascicular Pathways
Melvin M. Scheinman (University of California San Francisco, United States)

Introducing New Pacing Maneuvers to Differentiate SVTs
Satoshi Higuchi (Tokyo Women's Medical University, Japan)

Treatment Strategies for AVNRT That Persists Even after Ablation
Sung-Hwan Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)

Learning Objective

- 1) Learn how to manage difficult or recurred PSVT cases.
- 2) Obtain practical tips on how to ablate rare and difficult supraventricular tachycardias.
- 3) Experience cutting-edge mapping, differentiation, and ablation strategies.

SCD 1

10:15 - 11:45 | Room 6 (Grand 4) | ENG

Understanding Epidemiology and Etiology of SCD

Chair Yongkeun Cho (Kyungpook National University School of Medicine, Republic of Korea)
Young Soo Lee (Daegu Catholic University College of Medicine, Republic of Korea)

Panel Joong Min Lee (University of Ulsan College of Medicine, Republic of Korea)
Hyoungseok Lee (Korea University College of Medicine, Republic of Korea)
Taehyun Hwang (Yonsei University College of Medicine, Republic of Korea)

Speaker Arrhythmia Risk in Congenital Long QT Syndrome Based on QTc Duration and Underlying Genetic Variation
Seiko Ohno (National Cerebral and Cardiovascular Center, Japan)

Understanding the Short QT Syndrome: New Developments
Sami Viskin (Tel Aviv Sourasky Medical Center, Israel)

Genetic Risk Factors of SCD
Namsik Yoon (Chonnam National University Medical School, Republic of Korea)

Cardiovascular Etiologies and Risk Factors of Survival Outcomes After Resuscitation for Out-of-Hospital Cardiac Arrest
Joo Hee Jeong (Korea University College of Medicine, Republic of Korea)

Modifiable Risk Factors for SCD
Tae-Seok Kim (Chungnam National University College of Medicine, Republic of Korea)

Learning Objective

- 1) Understand how to stratify arrhythmia risk in patients with long QT syndrome.
- 2) Learn about rare forms of SCD: short QT syndrome.
- 3) Keep up with recent recommendations to treat and prevent SCD.

PROGRAM DETAILS

June 20 (Fri.)

ORAL ABSTRACT 1: AF

10:15 - 11:45 | Room 7 (Grand 5) | ENG

Chair **Sung-Won Jang** (College of Medicine, The Catholic University of Korea, Republic of Korea)
Wei Chung Tsai (Kaohsiung Medical University, Taiwan)

Presenter **Association between Comprehensive Management of Cardiovascular Comorbidities and the Risk of Stroke in Patients with New-Onset Atrial Fibrillation**

Jae-Hyun Kim (Seoul National University College of Medicine, Republic of Korea)

Sarcopenia in Atrial Fibrillation: A Risk Factor for Adverse Outcomes in a UK Biobank Study

Hong-Ju Kim (Yeungnam University College of Medicine, Republic of Korea)

The Distinct Role of Underweight in Incident Atrial Fibrillation among Individuals with Low Genetic Predisposition

Young Shin Lee (School of Medicine, Kyung Hee University, Republic of Korea)

The Impact of Nadir Temperature during Cryoballoon Ablation in Patients with Persistent Atrial Fibrillation

Hyo Jin Lee (School of Medicine, Sungkyunkwan University, Republic of Korea)

Two-Year Follow-Up of Atrial Fibrillation Burden Reduction After Cryoballoon Pulmonary Vein Isolation in Early Persistent Atrial Fibrillation: Results from the COOL-PER Trial

Seokmoon Han (Seoul National University College of Medicine, Republic of Korea)

Prolonged Cardiopulmonary Bypass during Type A Aortic Dissection Surgery Leads to Adverse Atrial Remodeling, Predisposing to Long-Term Atrial Fibrillation and Heart Failure in the Long-Term

Wei-Hsin Chung (China Medical University Hospital, Taiwan)

SCIENTIFIC SESSION (Abbott Medical Korea)

12:00 - 12:50 | Room 1 (Vista 1) | ENG

Optimization of PFA workflow & Aveir VR Ventricular Leadless Pacemaker

Chair **Jun Kim** (University of Ulsan College of Medicine, Republic of Korea)
Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)

Speaker **Revolutionizing Cardiac Care: The Unique Benefits of AVEIR Leadless Pacemakers**

Joseph Yat Sun Chan (Prince of Wales Hospital, Hong Kong)

Safety, Effectiveness, and Clinical Workflow with Pulsed Field Ablation System

Prashanthan Sanders (University of Adelaide, Australia)

SCIENTIFIC SESSION (Chong Kun Dang & CELLTRION PHARM)

12:00 - 12:50 | Room 3 (Vista 3) | KOR

Chair Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)
Hyung Wook Park (Chonnam National University Medical School, Republic of Korea)

Speaker **Beta blocker in Patients with Cardiac Arrhythmias**
Hee Tae Yu (Yonsei University College of Medicine, Republic of Korea)

Real-world evidence of Apixaban : ASPIRE
Hyo-Jeong Ahn (Seoul National University College of Medicine, Republic of Korea)

PLENARY SESSION

13:10 - 14:40 | Room 1 (Vista 1) | ENG

Chair Seil Oh (Seoul National University College of Medicine, Republic of Korea)
Boyoung Jung (Yonsei University College of Medicine, Republic of Korea)

Panel Sung-Hwan Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)
Hee Tae Yu (Yonsei University College of Medicine, Republic of Korea)
Ki Hong Lee (Chonnam National University Medical School, Republic of Korea)
Min Soo Cho (University of Ulsan College of Medicine, Republic of Korea)

Speaker **Polymorphic Ventricular Tachycardia: Telling Apart Pseudo-Torsade de Pointes from True Torsade de Pointes**
Sami Viskin (Tel Aviv Sourasky Medical Center, Israel)

Artificial Intelligence in Cardiac Arrhythmia: Transforming Electrocardiogram Interpretation and Beyond
Itzhak Zachi Attia (Mayo Clinic, United States)

Pulsed Field Ablation: A Paradigm Shift in Atrial Fibrillation Therapy
Kyoung-Ryul Julian Chun (CCB Frankfurt, Germany)

Learning Objective

- 1) Differentiate between pseudo-torsade de pointes and true torsade de pointes based on ECG features and clinical context.
- 2) Recognize the current and potential applications of artificial intelligence in arrhythmia detection, ECG interpretation, and clinical decision-making.
- 3) Understand the mechanism, benefits, and clinical adoption of pulsed field ablation as an emerging technology in AF treatment.

PROGRAM DETAILS

June 20 (Fri.)

VENTRICULAR TACHYCARDIA 1

13:10 - 14:40 | ROOM 3 (VISTA 3) | ENG

Approach for VT Management

Moderator Jae-Sun Uhm (Yonsei University College of Medicine, Republic of Korea)

Chair Byung-Chun Jung (Daegu Fatima Hospital, Republic of Korea)
Kyoung-Min Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

Panel Ungjeong Do (Chung-Ang University College of Medicine, Republic of Korea)
Kiyung Boo (Jeju National University School of Medicine, Republic of Korea)
Hancheol Lee (National Health Insurance Service Ilsan Hospital, Republic of Korea)
Seokmoon Han (Seoul National University College of Medicine, Republic of Korea)

Speaker **Honorary FKHS Special Lecture: My Journey with Purkinje**
Akihiko Nogami (Tokyo Heart Rhythm Hospital, Japan)

Comparative Efficacy of Catheter Ablation vs. ICD Therapy in VT Management
Ki-Hun Kim (Inje University College of Medicine, Republic of Korea)

Ventricular Arrhythmia Originating from the Cardiac Crux or Inferior Septum
Euijae Lee (Bucheon Sejong Hospital, Republic of Korea)

Epicardial Mapping, Cardiac Vein Mapping for VT Ablation
Yuki Komatsu (University of Tsukuba, Japan)

Bailout Strategies for Failed Ventricular Tachycardia Ablation: Exploring Needles, Bipolar Techniques, Alcohol, and Saline Heating
Fa-Po Chung (Taipei Veterans General Hospital, Taiwan)

Learning Objective

- 1) Understanding the approaches and principles for the treatment of ventricular tachycardia.
- 2) Investigate strategies to improve the success rate of ventricular tachycardia treatment.

CROSS SPECIALTY 1

13:10 - 14:40 | Room 4 (Walker 1) | KOR

Cardioembolic Stroke and ESUS

Chair Sun-uck Kwon (University of Ulsan College of Medicine, Republic of Korea)
Gyo-Seung Hwang (Ajou University School of Medicine, Republic of Korea)

Panel Chi Kyung Kim (Korea University College of Medicine, Republic of Korea)
Seung Yong Shin (Korea University College of Medicine, Republic of Korea)
Keon-Joo Lee (Korea University College of Medicine, Republic of Korea)
JoonNyung Heo (Yonsei University College of Medicine, Republic of Korea)

Speaker Considerations before Cardiac Intervention after Cardioembolic Stroke-Appropriate Timing and Use of Anticoagulants

Do Yeon Kim (Seoul National University College of Medicine, Republic of Korea)

AF Screening in Patients with ESUS

Min Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

Updates in Cardioembolic Stroke Diagnosis: The Role of Imaging and Biomarkers

Hyung-Min Kwon (Seoul National University College of Medicine, Republic of Korea)

Risks and Benefits of Early Rhythm Control in Patients With Acute Strokes and Atrial Fibrillation

Jin-Seok Kim (Korea University College of Medicine, Republic of Korea)

Atrial Cardiopathy and ESUS

Yo Han Jung (Yonsei University College of Medicine, Republic of Korea)

Learning Objective

- 1) 좌심방 질환과 ESUS의 관련성에 대해 알아봅니다.
- 2) ESUS 환자들에서 심방세동 동반여부 확인을 위한 전략을 공유해 봅니다.
- 3) ESUS 진단 및 치료의 최신 지견과 영상학적 검사에 대해서 알아 봅니다.

PROGRAM DETAILS

June 20 (Fri.)

HEALTH POLICY

13:10 - 14:40 | Room 5 (Walker 2) | KOR

Chair **Nam-Ho Kim** (Wonkwang University School of Medicine, Republic of Korea)
Moon-Hyoung Lee (Yonsei University College of Medicine, Republic of Korea)

Panel **Jin-Bae Kim** (School of Medicine, Kyung Hee University, Republic of Korea)
Minsoo Ahn (Yonsei University Wonju College of Medicine, Republic of Korea)
Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)
Sung-Won Jang (College of Medicine, The Catholic University of Korea, Republic of Korea)
Deok Kyu Cho (Yonsei University College of Medicine, Republic of Korea)
Seonhye Park (KUKINEWS, Republic of Korea)
Jeong Soo Lee (Medipana, Republic of Korea)

Speaker **의료 행위의 상대가치 산정**
Sunwoo Kim (Korean Medical Association, Republic of Korea)

보험수가 산정의 과정
TBD

신의료 행위 도입과정
Worsook Lee (NECA(National Evidence-Based Healthcare Collaboration Agency), Republic of Korea)

재평가가 시급한 의료행위 (부정맥 분야)
Seung-Young Roh (Korea University College of Medicine, Republic of Korea)

PEDIATRIC

13:10 - 14:40 | Room 6 (Grand 4) | ENG

VT and SCD in Repaired 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)

Panel **Jina Choi** (Seoul National University College of Medicine, Republic of Korea)
Jakyoung Yoon (School of Medicine, Sungkyunkwan University, Republic of Korea)
Jueseong Lee (Korea University College of Medicine, Republic of Korea)
Joowon Lee (Seoul National University College of Medicine, Republic of Korea)

Speaker **The Mechanism and Risk Stratification of VT and SCD in Repaired CHD Patients**
Mi Kyoung Song (Seoul National University College of Medicine, Republic of Korea)

The VT/SCD Cases in CHD; What Could We Do for These Patients?
Aya Miyazaki (Seirei Hamamatsu General Hospital, Japan)

When and How to Perform Catheter Ablation of VT in Repaired TOF?
Mitchell Cohen (Inova LJ Murphy Children's Hospital, United States)

The Role of the Surgical Ablation for Atrial / Ventricular Arrhythmia in CHD Patients
Jieun Ban (Bucheon Sejong Hospital, Republic of Korea)

Learning Objective

- 1) To understand the mechanisms and clinical risk factors of VT and SCD in patients with repaired CHD.
- 2) To review case-based approaches and expert strategies for the prevention and management of VT and SCD in repaired CHD patients, including catheter ablation and surgical interventions.
- 3) To discuss the timing, indications, and techniques for interventional therapies in this high-risk population, with a focus on tetralogy of Fallot and complex congenital heart lesions.

PROGRAM DETAILS

June 20 (Fri.)

YOUNG EPS IN ACTION

13:10 - 14:40 | Room 7 (Grand 5) | ENG

Interesting Case Competition

Chair
Chun Hwang (CS Foundation, United States)
Chi Keong Ching (National Heart Centre Singapore, Singapore)

Judge
Chang Hee Kwon (Konkuk University Professional Graduate School of Medicine, Republic of Korea)
Jun Kim (University of Ulsan College of Medicine, Republic of Korea)
Sang Weon Park (Bucheon Sejong Hospital, Republic of Korea)
Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)
Shohei Kataoka (University of California, San Francisco, Japan)

Presenter
His-electrogram Alternans During Supraventricular Tachycardia with Alternating Cycle Lengths
Soonil Kwon (Seoul National University College of Medicine, Republic of Korea)

Nodoventricular Pathway-Related Orthodromic Reciprocating Tachycardia
Heeyoung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

A Rare Combination of Left-Sided Accessory Pathway and Left Atrial focal Tachycardia in WPW Syndrome Caused Left Ventricular Dysfunction
Seung Min Baek (Seoul National University Children's Hospital, Republic of Korea)

Unveiling Radiofrequency Ablation Lesion: Very Early Gross and Histopathologic Changes After Ischemic VT Ablation
Hyo-Jeong Ahn (Seoul National University College of Medicine, Republic of Korea)

A Rare Case of Incessant Atrial Tachycardia arising from the Middle Cardiac Vein Ostium
Kyung-Yeon Lee (Seoul National University College of Medicine, Republic of Korea)

Ablation of Brugada Syndrome: Experience from a Clinical Case Performed at Xiamen Cardiovascular Hospital
Tuan Viet Nguyen (Thanh Hoa Province General Hospital, Vietnam)

Pacing on the Edge: Therapeutic Success of Left Bundle Branch Area Pacing in an Advanced Heart Failure Patient with Cardiac Sarcoidosis and Marked Septal Wall Thinning
Ye Chan Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

ATRIAL FIBRILLATION 3

14:55 - 16:25 | Room 1 (Vista 1) | ENG

Latest Advances in Catheter Ablation for AF

Chair **Young-Hoon Kim** (Korea University College of Medicine, Republic of Korea)
Jun Kim (University of Ulsan College of Medicine, Republic of Korea)
Yenn-Jiang Lin (Taichung Veterans General Hospital, Taiwan)

Panel **Soohyun Kim** (College of Medicine, The Catholic University of Korea, Republic of Korea)
Jin-Kyu Park (Hanyang University College of Medicine, Republic of Korea)
Hyo Jin Lee (School of Medicine, Sungkyunkwan University, Republic of Korea)
Yun Young Choi (Seoul National University College of Medicine, Republic of Korea)

Speaker **Very High-Power Short-Duration Ablation Strategy in AF Ablation**
 Euijae Lee (Bucheon Sejong Hospital, Republic of Korea)

Strategy for Pulmonary Vein Isolation and Extra PV Ablation Using Pulsed-Field
 Kyoung-Ryul Julian Chun (CCB Frankfurt, Germany)

Understanding Pulsed Field Ablation: Are We There Yet
 Yasuo Okumura (Nihon University, Japan)

Fluoroless Catheter Ablation of Atrial Fibrillation: Why, When and How?
 Youngjin Cho (Seoul National University College of Medicine, Republic of Korea)

Virtual Ablation Guided Approach for Targeted AF Ablation
 Je-Wook Park (Yonsei University College of Medicine, Republic of Korea)

Learning Objective

- 1) To understand the latest trends in catheter ablation for atrial fibrillation.
- 2) To explore the efficacy and characteristics of pulsed field ablation in the treatment of atrial fibrillation.
- 3) To examine future directions in the development of catheter ablation techniques for atrial fibrillation.

PROGRAM DETAILS

June 20 (Fri.)

DIGITAL HEALTH

14:55 - 16:25 | Room 2 (Vista 2) | ENG

AI in EP

Chair
Dae Hyeok Kim (Inha University School of Medicine, Republic of Korea)
Joong-Wha Chung (Chosun University College of Medicine, Republic of Korea)

Panel
Myoung Jung Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Minsu Kim (Chungnam National University College of Medicine, Republic of Korea)
Seongjin Park (School of Medicine, Sungkyunkwan University, Republic of Korea)
Dae-In Lee (Korea University College of Medicine, Republic of Korea)

Speaker
The Role and Clinical Implications of AI-Driven ECG in Cardiovascular Medicine
Yong Soo Baek (Inha University School of Medicine, Republic of Korea)

Artificial Intelligence–Derived Electrocardiographic Aging and Risk of Atrial Fibrillation
Hee Tae Yu (Yonsei University College of Medicine, Republic of Korea)

AI-Based Risk Stratification of Arrhythmic Events
Tetsuo Sasano (Institute of Science Tokyo, Japan)

Artificial Intelligence to Detect Heart Disease Using Wearable Devices
Itzhak Zachy Attia (Mayo Clinic, United States)

Cutting-Edge Advances in Artificial Intelligence-Driven Catheter Ablation
Taehyun Hwang (Yonsei University College of Medicine, Republic of Korea)

Learning Objective

- 1) Investigate how AI is transforming healthcare by revolutionizing clinical practices and reshaping the delivery of medical care.
- 2) Understand how AI-driven biological heart age estimation is advancing the prediction of arrhythmias and cardiovascular diseases.
- 3) Explore the application of AI in detecting heart disease through wearable devices and the latest innovations in AI for atrial fibrillation procedures.

INTERNATIONAL SOCIETY JOINT SESSION 1 (HRS)

14:55 - 16:25 | Room 3 (Vista 3) | ENG

Transforming AF Management: Insights from Recent Clinical Trials

Chair **Tae-Joon Cha** (Kosin University College of Medicine, Republic of Korea)
Mina Chung (Cleveland Clinic, United States)
Seil Oh (Seoul National University College of Medicine, Republic of Korea)

Panel **Ju Youn Kim** (School of Medicine, Sungkyunkwan University, Republic of Korea)
SeungYong Shin (Korea University College of Medicine, Republic of Korea)

Speaker **OPTION Trial: AFCA with LAAO, Shaping the Future of AF Management**
Oussama Wazni (Cleveland Clinic, United States)

EPIC-CAD Trial: The End of Concerns over OAC Monotherapy in AF Patients with Stable CAD
Gibyong Nam (University of Ulsan College of Medicine, Republic of Korea)

Implications on Lifestyle and Risk Factor Modification from the TRIM-AF Trial
Mina Chung (Cleveland Clinic, United States)

CRALAL Trial: Additional Right Atrial Linear Ablation for Persistent Atrial Fibrillation
Hui-Nam Pak (Yonsei University College of Medicine, Republic of Korea)

Learning Objective

- 1) To understand the latest trends and paradigm shifts in atrial fibrillation treatment through the results of key clinical trials, including OPTION, EPIC-CAD, TRIM-AF, and CRALAL.
- 2) To evaluate the clinical implications of various therapeutic strategies presented in these trials for the management of AF patients.
- 3) To discuss the practical significance of recent trial findings in guiding personalized treatment approaches for improving clinical outcomes in AF patients.

PROGRAM DETAILS

June 20 (Fri.)

EGM TRACING 1

14:55 - 16:25 | Room 4 (Walker 1) | ENG

Narrow QRS Tachycardia

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

Speaker **Case Presentation**
Chi Keong Ching (National Heart Centre Singapore, Singapore)

Case Presentation
Tachapong Ngarmukos (Medicine Ramathibodi Hospital, Mahidol University, Thailand)

Case Presentation
Chan-Hee Lee (Yeungnam University College of Medicine, Republic of Korea)

Case Presentation
Akihiko Nogami (Tokyo Heart Rhythm Hospital, Japan)

Case Presentation
Shohei Kataoka (University of California, San Francisco, Japan)

Learning Objective

- 1) Identify key EGM features associated with various types of narrow QRS tachycardias.
- 2) Differentiate the mechanisms of narrow QRS tachycardias using EGM criteria and response to pacing maneuvers.

SPAF 2 14:55 - 16:25 | Room 5 (Walker 2) | ENG
Anticoagulation in Special Settings

Chair **Yong Seog Oh** (College of Medicine, The Catholic University of Korea, Republic of Korea)
Gregory Lip (University of Liverpool, United Kingdom)

Panel **Jong Sung Park** (Kyungpook National University School of Medicine, Republic of Korea)
Ga-In Yu (Gyeongsang National University College of Medicine, Republic of Korea)
Moonki Jung (Chung-Ang University College of Medicine, Republic of Korea)

Speaker **Updates in SPAF of AF Patients with ESRD**
Hong-Ju Kim (Yeungnam University College of Medicine, Republic of Korea)

Optimal Dose of Edoxaban for Very Elderly Atrial Fibrillation Patients at High Risk of Bleeding
Dong-Seon Kang (College of Medicine, Hallym University, Republic of Korea)

Stroke Risk in Asian AF Patients: Unique Challenges and Opportunities
Tze-Fan Chao (Taipei Veterans General Hospital, Taiwan)

What is the Optimal Antithrombotic Therapy for AF and Coronary Artery Disease?
Min Soo Cho (University of Ulsan College of Medicine, Republic of Korea)

When Is It Safe to Stop Oral Anticoagulation after AF Ablation?
Dongmin Kim (Dankook University College of Medicine, Republic of Korea)

Learning Objective

- 1) Learn evidence-based anticoagulation strategies tailored to special populations, including those with end-stage renal disease (ESRD), elderly patients, and individuals with coronary artery disease.
- 2) Discuss appropriate timing for anticoagulation discontinuation after procedures and explore personalized approaches to patient care.

INDUSTRY SESSION (Daiichi Sankyo Korea & DAEWOONG PHARM) 14:55 - 15:25 | Room 6 (Grand 4) | KOR
Common but Not Simple: Anticoagulation Therapy in Atrial Fibrillation Patients with Comorbidities

Chair **Sang Weon Park** (Bucheon Sejong Hospital, Republic of Korea)
Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)

Speaker **Case Review: AF & CAD**
Lae-Young Jung (Chonbuk National University Medical School, Republic of Korea)

Case Review: AF & Stroke & Dementia
Kyongjin Min (Incheon Sejong Hospital, Republic of Korea)

Case Review: AF & Old age
Jinhee Choi (Pusan National University School of Medicine, Republic of Korea)

PROGRAM DETAILS

June 20 (Fri.)

INDUSTRY SESSION (Daiichi Sankyo Korea & DAEWOONG PHARM)

15:55 - 16:25 | Room 6 (Grand 4) | KOR

Common but Not Simple: Anticoagulation Therapy in Atrial Fibrillation Patients with Comorbidities

Discussion

Oral Abstract 2: AF

14:55 - 16:25 | Room 7 (Grand 5) | ENG

Chair **Tae-Seok Kim** (Chungnam National University College of Medicine, Republic of Korea)
Saruul Tseveendee (Third State Hospital, Mongolia)

Presenter **The Association between Life's Essential 8, Alcohol Consumption, and the Incidence of Atrial Fibrillation: An Analysis using UK Biobank Data**

Do Young Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)

Relationship between Early Rhythm Control and Incident Dementia in Patients with Atrial Fibrillation according to Hypertension Duration: A Nationwide Population-based Study

Hyunho Ryu (Seoul National University College of Medicine, Republic of Korea)

Association between the Presence of Pathogenic Genetic Variant and Prognosis in Atrial Fibrillation

Soyoon Park (College of Medicine, The Catholic University of Korea, Republic of Korea)

Periprocedural Factor Xa Inhibitor Interruption and Resumption for Patients with Atrial Fibrillation Undergoing Dental Procedures

Kyung-Yeon Lee (Seoul National University College of Medicine, Republic of Korea)

Early Catheter Ablation in Atrial Fibrillation Patients Recently Hospitalized for Worsening Heart Failure: A Nationwide Population Study

Seokmoon Han (Seoul National University College of Medicine, Republic of Korea)

Early Recurrence After Very High-Power Short-Duration Ablation Versus Other Modalities for Atrial Fibrillation: A Propensity Score-Matched Study

Seung Woo Lee (Ewha Womans University School of Medicine, Republic of Korea)

CIED 2 16:40 - 18:10 | Room 1 (Vista 1) | ENG
Cardiac Resynchronization in the Era of Conduction System Pacing

- Chair** **Kyoung-Suk Rhee** (Chonbuk National University Medical School, Republic of Korea)
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)
-
- Panel** **Minsoo Kim** (University of Ulsan College of Medicine, Republic of Korea)
Hye Bin Gwag (School of Medicine, Sungkyunkwan University, Republic of Korea)
Hee-Jin Kwon (Chungnam National University College of Medicine, Republic of Korea)
Won-Seok Choe (Bucheon Sejong Hospital, Republic of Korea)
-
- Speaker** **Conduction System Pacing vs. Biventricular Pacing: When and Why to Prioritize One over the Other**
Ronpichai Chokesuwattanaskul (Chulalongkorn hospital, Thailand)
- LV Septal Pacing vs. LBB Pacing: Exploring Hemodynamic Changes and Clinical Outcomes**
Young Jun Park (Yonsei University Wonju College of Medicine, Republic of Korea)
- Imaging Modalities for Conduction System Pacing Selection: Choosing the Right Patient with the Right Tools**
Shunmuga Sundaram Ponnusamy (Velammal Medical College Hospital, India)
- HOT-CRT or LOT-CRT: Determining the "When," "Who," and "How"?**
Lae-Young Jung (Chonbuk National University Medical School, Republic of Korea)
- Conduction System Pacing for Non-LBBB: Benefits and Challenges for RBBB and IVCD Patients**
Daehoon Kim (Yonsei University College of Medicine, Republic of Korea)

Learning Objective

- 1) Compare conduction system pacing and biventricular pacing to guide optimal therapy selection in diverse clinical scenarios.
- 2) Understand the hemodynamic effects of various pacing sites and their clinical relevance in LBBB and non-LBBB patients.
- 3) Explore emerging imaging modalities and resynchronization strategies to optimize personalized pacing therapy.

INDUSTRY SESSION (Abbott Medical Korea) 16:40 - 17:10 | Room 2 (Vista 2) | KOR
HD Mapping in VT Cases with a Novel Frequency-Based Algorithm Aveir VR Ventricular Leadless Pacemaker

- Chair** **Hyoung-Seob Park** (Keimyung University School of Medicine, Republic of Korea)
Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)
-
- Speaker** **Complex Cases Sharing with HD Mapping Using OTNF**
Daehoon Kim (Yonsei University College of Medicine, Republic of Korea)
- Aveir VR, A Paradigm Shift in Pacing: Early Insights, Catheter Handling, and First Impressions**
Jongmin Hwang (Keimyung University School of Medicine, Republic of Korea)

PROGRAM DETAILS

June 20 (Fri.)

INDUSTRY SESSION (Boston Scientific Korea Co., Ltd.) FARAPULSE, Change the Paradigm of AF Ablation

17:40 - 18:10 | Room 2 (Vista 2) | ENG

Chair Eue-Keun Choi (Seoul National University College of Medicine, Republic of Korea)

Panel Ju Youn Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Hee Tae Yu (Yonsei University College of Medicine, Republic of Korea)

Speaker Brief Introduction of PFA System, Patient Selection for 2D&3D PFA
Kyoung-Ryul Julian Chun (CCB Frankfurt, Germany)

Q&A, Discussion

INTERNATIONAL SOCIETY JOINT SESSION 2 (THRS) Shaping the Advance in AF Management

16:40 - 18:10 | Room 3 (Vista 3) | ENG

Moderator Jong-Il Choi (Korea University College of Medicine, Republic of Korea)

Chair Seil Oh (Seoul National University College of Medicine, Republic of Korea)
Yenn-Jiang Lin (Taichung Veterans General Hospital, Taiwan)

Panel Dong-Hyeok Kim (Ewha Womans University School of Medicine, Republic of Korea)
Yong Soo Baek (Inha University School of Medicine, Republic of Korea)

Speaker Artificial Intelligence-Derived Electrocardiographic Aging and Risk of AF
Boyoung Joung (Yonsei University College of Medicine, Republic of Korea)

Optimal Drug Therapy for Rate & Rhythm Control in AF
Jong-Il Choi (Korea University College of Medicine, Republic of Korea)

Catheter Ablation of AF: PFA vs Cryo.
Li-Wei Lo (Taipei Veterans General Hospital, Taiwan)

Surgical Ablation of AF: Combined or Hybrid Procedures
I-Chen Chen (Cheng-Hsin General Hospital, Taiwan)

Learning Objective

- 1) To review updates in management of atrial fibrillation.
- 2) To learn about how to predict AF using AI.
- 3) To discuss how to overcome problems in AF patients under real-world practice and to bridge the knowledge gap, beyond guidelines.

EGM TRACING 2

16:40 - 18:10 | Room 4 (Walker 1) | ENG

Wide QRS Tachycardia

Chair **Hyung Wook Park** (Chonnam National University Medical School, Republic of Korea)
Chun Hwang (CS Foundation, United States)
Melvin M. Scheinman (University of California San Francisco, United States)

Speaker **Case Presentation**
Yeji Kim (Ewha Womans University School of Medicine, Republic of Korea)

Case Presentation
Joong Min Lee (University of Ulsan College of Medicine, Republic of Korea)

Case Presentation
Han-Joon Bae (Daegu Catholic University College of Medicine, Republic of Korea)

Case Presentation
Soohyun Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)

Case Presentation
Kyung-Yeon Lee (Seoul National University College of Medicine, Republic of Korea)

Learning Objective

- 1) Identify key EGM features associated with various types of wide QRS tachycardias.
- 2) Discuss diagnostic and therapeutic strategies based on clinical context and EGM findings in patients presenting with wide QRS tachycardia.

PROGRAM DETAILS

June 20 (Fri.)

SPECIAL SESSION

16:40 - 18:10 | Room 5 (Walker 2) | ENG

Troubleshooting for Complex Cases

Chair **Jin-Seok Kim** (Korea University College of Medicine, Republic of Korea)
Kyoko Soejima (Kyorin University, Japan)

Panel **Do Young Kim** (Ajou University School of Medicine, Republic of Korea)
Heeyoung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)
Young Shin Lee (School of Medicine, Kyung Hee University, Republic of Korea)

Speaker **What Should I Do if My SL 1 Sheath Is in Aorta**
Yun Gi Kim (Korea University College of Medicine, Republic of Korea)

Uncommon complications of pulsed field ablation
Moonki Jung (Chung-Ang University College of Medicine, Republic of Korea)

Tips for Successful Block of Roof Line and PMI
Sang Weon Park (Bucheon Sejong Hospital, Republic of Korea)

How to Implant LV Lead in Patients with Small Cardiac Veins
Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

Utilization of 3D-Mapping System in Difficult AVRT and WPW Syndrome Cases
Sung Woo Lee (MedStar Washington Hospital Center, United States)

Learning Objective

- 1) Prevent and handle complications of catheter ablation.
- 2) Important tips for difficult procedures: complete block of lines and LV lead implantation in small veins.
- 3) Discuss about clinical usefulness of 3D mapping in bypass tract ablation.

INDUSTRY SESSION (Johnson & Johnson MedTech)

16:40 - 17:10 | Room 6 (Grand 4) | ENG

The Advantage of 3D Integrated PFA: Key Insights from Early Experience

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

Speaker **The Advantage of 3D Integrated PFA: Key Insights from Early Experience**
Philipp Sommer (Heart and Diabetes Center NRW, University of Bochum, Germany)

INDUSTRY SESSION (Samjin Pharm.)

17:40 - 18:10 | Room 6 (Grand 4) | KOR

Strategic Rhythm Control and Tailored NOAC Therapy in Atrial Fibrillation Patients

Chair Myung Yong Lee (Dankook University College of Medicine, Republic of Korea)

Speaker **Optimizing NOAC selection in high-risk atrial fibrillation patients with consideration of apixaban**
Sang Jun Lee (Yonsei University Wonju College of Medicine, Republic of Korea)

Importance of Early Rhythm Control Compared to Rate Control in Patients with Atrial Fibrillation
Minsu Kim (Chungnam National University College of Medicine, Republic of Korea)

ORAL ABSTRACT 3

16:40 - 18:10 | Room 7 (Grand 5) | ENG

BASIC/TRANSLATIONAL SCIENCE, CIED

Chair Ki-Hun Kim (Inje University College of Medicine, Republic of Korea)
Seiko Ohno (National Cerebral and Cardiovascular Center, Japan)

Presenter **Optimization-Based Cardiac Shape Registration to Integrate Imaging and Electroanatomical Mapping for Catheter Ablation Planning**
Oh Seok Kwon (Yonsei University College of Medicine, Republic of Korea)

Assessing Modified Chest Leads as a Substitute for Electrophysiological Systems in Left Bundle Branch Area Pacing
Sung Soo Kim (Chosun University College of Medicine, Republic of Korea)

Comparison of Risk of Pacing Induced Cardiomyopathy Following Leadless vs Conventional Pacemaker Implantation
Ye Chan Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

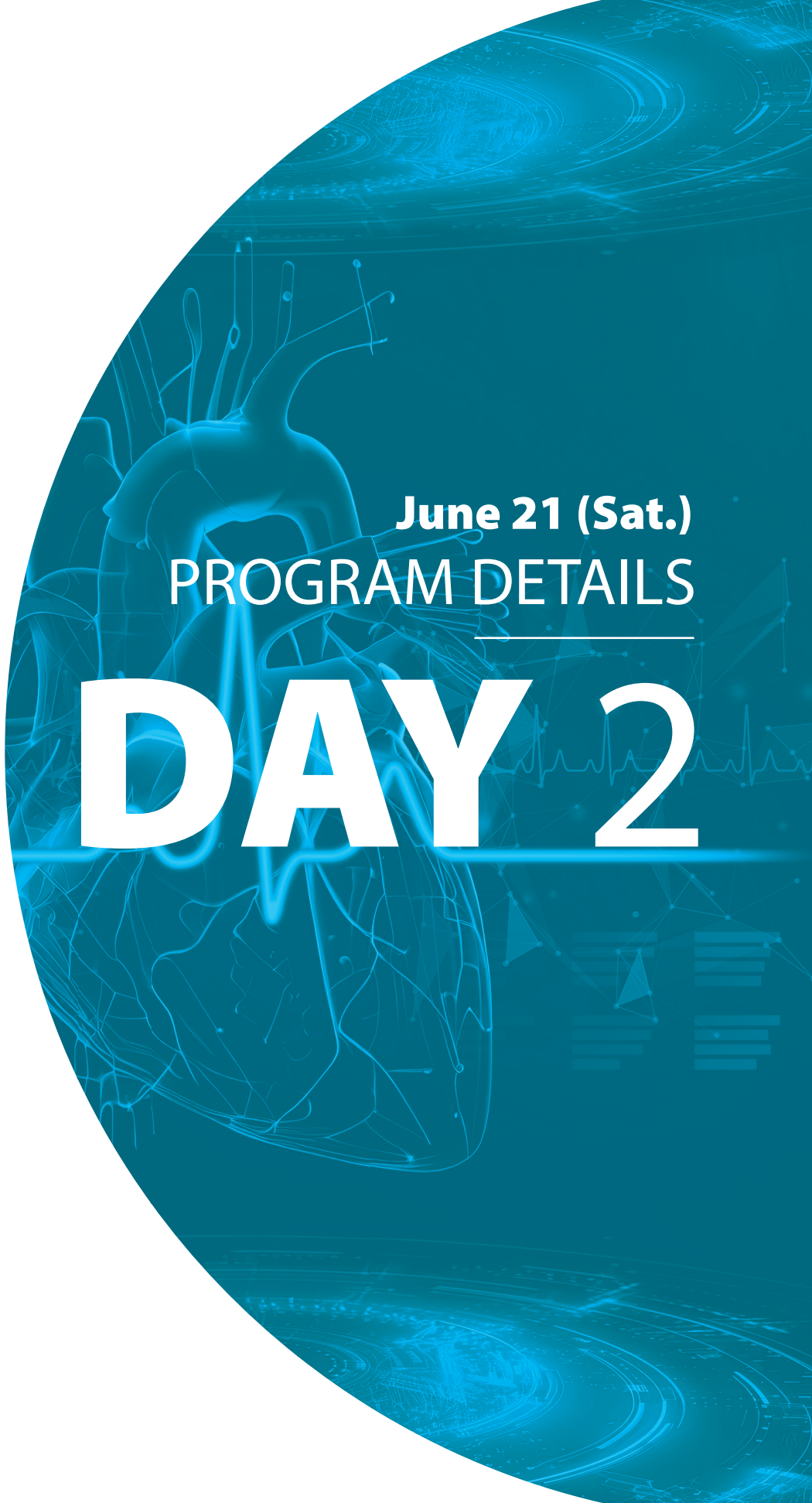
Decoding Pacemaker Cell Fate Drift Under Metabolic Stress: A Single-Cell RNA Velocity Framework for Predicting Arrhythmogenic Trajectories in Human Sinoatrial Node Cells
Sahnaz Vivinda Putri (International University Semen Indonesia, Indonesia)

Topology-Informed AI Modeling of Spiral Wave Drift Dynamics in Post-Infarct Ventricular Tissue to Predict Monomorphic Ventricular Tachycardia Initiation
Rifaldy Fajar (Karlstad University, Indonesia)

Comparative Analysis of Different Manufacturer Products for Left Bundle Branch Area Pacing: A Real-World Single Center Experience
Jongmin Hwang (Keimyung University School of Medicine, Republic of Korea)

KHRS 2025

The 17th Annual Scientific Session
of the Korean Heart Rhythm Society



June 21 (Sat.)
PROGRAM DETAILS

DAY 2

PROGRAM DETAILS

June 21 (Sat.)

LATEST ADVANCES IN GUIDELINES

08:30 - 10:00 | Room 1 (Vista 1) | ENG

Practical Insights from the Latest Guidelines

Chair **Jae-Jin Kwak** (Seoul Medical Center, Republic of Korea)
Jung Hoon Sung (CHA University, Republic of Korea)

Panel **Yeji Kim** (Ewha Womans University School of Medicine, Republic of Korea)
Kyung-Yeon Lee (Seoul National University College of Medicine, Republic of Korea)
Hancheol Lee (National Health Insurance Service Ilsan Hospital, Republic of Korea)
Moo Nyun Jin (Incheon Sejong Hospital, Republic of Korea)

Speaker **Latest Updates in the Guidelines for Diagnosis and Management of Atrial Fibrillation**
Mina Chung (Cleveland Clinic, United States)

Anticoagulation in High-Bleeding-Risk AF Patients: What Do the Guidelines Recommend?
Ki Hong Lee (Chonnam National University Medical School, Republic of Korea)

Optimizing Strategies on LBBAP and CRT: Lessons from New Guidelines
Tae-Hoon Kim (Yonsei University College of Medicine, Republic of Korea)

Wearable Devices and Artificial Intelligence for AF Screening: Are You Ready for New Guidelines for Routine Clinical Use?
Yoo Ri Kim (Chonnam National University Medical School, Republic of Korea)

Risk Stratification for SCD in Heart Failure Patients: What's New in the Guidelines?
Sung Il Im (Kosin University College of Medicine, Republic of Korea)

Learning Objective

- 1) Understand the most recent updates in global and regional clinical guidelines for atrial fibrillation, heart failure, device therapy, and anticoagulation.
- 2) Evaluate practical implications of new guideline recommendations in managing complex patient cases, especially those with high bleeding risk or requiring device therapy.
- 3) Explore emerging trends in guideline incorporation of digital health technologies, including AI and wearable devices, for AF screening and sudden cardiac death prevention.

IJA(OFFICIAL JOURNAL OF KHRS) SESSION

08:30 - 10:00 | Room 2 (Vista 2) | ENG

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

Panel **Junbeom Park** (Ewha Womans University School of Medicine, Republic of Korea)
Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)
Jong-Il Choi (Korea University College of Medicine, Republic of Korea)

Speaker **What Have I Learned during My First Year as Editor of Heart Rhythm**
Sami Viskin (Tel Aviv Sourasky Medical Center, Israel)

A Single-Center Outcome of Choosing Catheter Ablation as the Initial Treatment in Tachycardia–Bradycardia Syndrome and a New Predictive Factor for Pacemaker Implantation
Hye Ree Kim (Gyeongsang National University College of Medicine, Republic of Korea)

Ablation Strategy for Idiopathic Outflow Tract Premature Ventricular Complexes: Rationale and Design of the ABOUT-PVC Study, a Prospective Multicenter Study
Ji-Hoon Choi (Konkuk University Professional Graduate School of Medicine, Republic of Korea)

Clinical Role of Genetic Testing for the Brugada Syndrome Overlapping with Arrhythmogenic Cardiomyopathy
Joo Hee Jeong (Korea University College of Medicine, Republic of Korea)

The Unexpected Complications of the Left Bundle Branch Area Pacing(LBBAP) Maneuver
Soyoon Park (College of Medicine, The Catholic University of Korea, Republic of Korea)

Learning Objective

- 1) Understand the latest trends in the field of heart rhythm and the role of the editor.
- 2) Introduce the leading papers published in the Official Journal of KHRS.

PROGRAM DETAILS

June 21 (Sat.)

INTERNATIONAL CASE COMPETITION

08:30 - 10:00 | Room 3 (Vista 3) | ENG

Challenging EP Cases

Chair Eun-Sun Jin (School of Medicine, Kyung Hee University, Republic of Korea)
Chun Hwang (CS Foundation, United States)

Judge Kyoung-Min Park (School of Medicine, Sungkyunkwan University, Republic of Korea)
Jae-Hyuk Lee (Myongji Hospital, Republic of Korea)
Miyako Igarashi (University of Tsukuba, Japan)
Saruul Tseveendee (Third State Hospital, Mongolia)
Akiko Ueda (Kyorin University Hospital, Japan)

Speaker Challenging SVT: When Atypical Bypass Tract Mediated SVT Mimicking Typical Atrioventricular Nodal Reentrant Tachycardia
Arsha Pramudya (Hasna Medika Cirebon Hospital, Cirebon, Indonesia)

Electrophysiology Characteristics of Supraventricular Tachycardia from Nodo-Ventricular Accessory Pathways in Ebstein Anomaly
Rith Chandara (Calmette Hospital, Cambodia)

An interesting Case of Atypical Preexcitation – Strategies for Diagnosis and Management
Suchit Majumdar (Apollo Multispeciality Hospitals, Kolkata, India)

A Case of Recurrent VT Storm Successfully Controlled by Substrate Mapping and Ablation
Pagmadulam Sukhbaatar (Mongol Japan Hospital of Mongolian National University of Medical Sciences (MNUMS), Mongolia)

Idiopathic Sustained Ventricular Tachycardia Originating from the Posterior Papillary Muscle: A Case Report
Zolzaya Darambold (Nomiun Hospital, Mongolia)

ECG GOLDEN BELL

08:30 - 10:00 | Room 4 (Walker 1) | KOR

Chair Minsu Kim (Chungnam National University College of Medicine, Republic of Korea)
Young Choi (College of Medicine, The Catholic University of Korea, Republic of Korea)

ALLIED PROFESSIONAL 1
Clinical Electrophysiology

08:30 - 10:00 | Room 5 (Walker 2) | ENG

Chair **Wonyoung Jung** (Samsung Medical Center, Republic of Korea)
Jeong ho Lee (Inje University Sanggye paik hospital, Republic of Korea)

Panel **Bonhyun Goo** (Chosun University Hospital, Republic of Korea)
Hyeonjun Kim (Ewha Womans University Mokdong Hospital, Republic of Korea)
Jie-Ying (National University Hospital, Singapore)

Speaker **Pacing Maneuvers and Strategies to Achieve Durable PVI**
Sungho Moon (Asan Medical Center, Republic of Korea)

Characteristics and Ablation Strategy of Batrial Tachycardias
Jongho Shin (College of Medicine, The Catholic University of Korea, Republic of Korea)

Differential Diagnosis of Verapamil Sensitive Atrial Tachycardia
Jeong-Wook Park (College of Medicine, The Catholic University of Korea, Republic of Korea)

12-Lead ECG to Predict the Site of Origin of Ventricular Arrhythmias
Young Woong Ha (The Catholic University of Korea, Seoul St. Mary's Hospital, Republic of Korea)

New Substrate Mapping Stratiges for Scar Related Ventricular Arrhythmias
Mitchell Cowan (Cardiac Physiology in Practice, Australia)

Learning Objective

- 1) Optimization of Diagnosis and Treatment of Atrial and Ventricular Arrhythmias through Advanced Electrophysiological Mapping and Ablation Strategies.
- 2) Comprehensive Electrophysiological Approaches for Diagnosis and Ablation of Complex Atrial and Ventricular Arrhythmias.

INDUSTRY SESSION (Chong kun dang & CELLTRION PHARM)

08:30 - 09:00 | Room 6 (Grand 4) | KOR

Chair **June Namgung** (Inje University College of Medicine, Republic of Korea)

Speaker **Beta blocker in Patients with Cardiac Arrhythmias**
Daehoon Kim (Yonsei University College of Medicine, Republic of Korea)

PROGRAM DETAILS

June 21 (Sat.)

INDUSTRY SESSION (HUINNO)

09:30 - 10:00 | Room 6 (Grand 4) | KOR

Impact of Evolving Wearable Devices on Electrocardiogram Room Operations

Chair So Ra Choi (Samsung Medical Center, Republic of Korea)

Speaker **Transition from Conventional Holter Monitoring to Wearable Devices: Workflow Changes and Operational Experience in the Electrocardiogram Room**

So Yeon Yoo (Ewha Womans University Seoul Hospital, Republic of Korea)

Changes in Electrocardiogram Room Operations One Year after the Second-generation Replacement of Memo Patch Plus

Se Hee Hong (Korea University Anam Hospital, Republic of Korea)

Discussion **Discussion and Q&A Session Following the Presentation**

So Ra Choi (Samsung Medical Center, Republic of Korea)

ORAL ABSTRACT 4

08:30 - 10:00 | Room 7 (Grand 5) | ENG

CIED

Chair Gyo-Seung Hwang (Ajou University School of Medicine, Republic of Korea)

Erik Fung (Hong Kong University of Science and Technology, Hong Kong)

Presenter **Early Experience with Bachmann's Bundle Area Pacing in Korea: Short-Term Follow-up Results from the First 10 Cases**

Soonil Kwon (Seoul National University College of Medicine, Republic of Korea)

Safety and Feasibility of AutoCapture™ Pacing System in Patients undergoing LBBAP

Sung Soo Kim (Chosun University College of Medicine, Republic of Korea)

Initial Experience of Electrogram-Guided Bachmann Bundle Area Pacing: Feasibility and Safety

Juwon Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

Comparison of Transjugular and Transfemoral Approaches for Leadless Pacemaker Implantation in Asian Patients: A Exploratory Study

Seongjin Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

Impact of Cardiac Implantable Electronic Devices on Survival in Patients with Cardiac Amyloidosis

Heeyoung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

Clinical Outcomes on Remote Monitoring Compliance in Patients with Implantable Cardioverter Defibrillator

Hui Xin See Tow (Yong Loo Lin School of Medicine, National University of Singapore, Singapore)

PFA UPDATE SESSION

10:15 - 11:45 | Room 1 (Vista 1) | ENG

Advancements in PFA Technology: Debates, Applications, and Future Directions

Chair **Young-Hoon Kim** (Korea University College of Medicine, Republic of Korea)
Hui-Nam Pak (Yonsei University College of Medicine, Republic of Korea)

Panel **Yun Gi Kim** (Korea University College of Medicine, Republic of Korea)
Ju Youn Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Hyoung-Seob Park (Keimyung University School of Medicine, Republic of Korea)
Eun-Sun Jin (School of Medicine, Kyung Hee University, Republic of Korea)

Speaker **Is 3D Guidance Essential for PFA in AF Ablation? A Debate**
1) Yes, It Is
 Sung Woo Lee (MedStar Washington Hospital Center, United States)

Is 3D Guidance Essential for PFA in AF Ablation? A Debate
2) No, It Is Not
 Kyoung-Ryul Julian Chun (CCB Frankfurt, Germany)

Exploring the Role of PFA in Managing Persistent AF
 Devi Nair (St. Bernards Medical Centre, United States)

Future Directions in Enhancing Lesion Depth: Combining RF and PFA for Optimal Outcomes
 Atul Verma (McGill University, Canada)

Catheter Design for PFA: Who Will Be the Finalist?
 Vivek Y. Reddy (Mount Sinai Fuster Heart Hospital, United States)

Learning Objective

- 1) To understand the necessity and limitations of 3D mapping and navigation in pulse field ablation (PFA) procedures, and to establish appropriate clinical decision-making criteria.
- 2) To evaluate the role and efficacy of PFA in the treatment of persistent atrial fibrillation based on the latest clinical evidence.
- 3) To explore emerging hybrid energy strategies aimed at enhancing lesion durability, and to understand the comparative features and technological advancements of different PFA catheter designs.

PROGRAM DETAILS

June 21 (Sat.)

VENTRICULAR TACHYCARDIA 2

10:15 - 11:45 | Room 3 (Vista 3) | ENG

Cutting-Edge Techniques for VT Ablations

Chair **Gibyoung Nam** (University of Ulsan College of Medicine, Republic of Korea)
Kyoko Soejima (Kyorin University, Japan)

Panel **Ji-Hoon Choi** (Konkuk University Professional Graduate School of Medicine, Republic of Korea)
Hyeon Jeong Oh (Inje University College of Medicine, Republic of Korea)
Young Shin Lee (School of Medicine, Kyung Hee University, Republic of Korea)
JungMin Choi (Seoul National University College of Medicine, Republic of Korea)

Speaker **Advanced Strategies for Ventricular Tachycardia Substrate Mapping**
Akiko Ueda (Kyorin University Hospital, Japan)

Catheter Ablation of Ventricular Tachycardia in the Patients with Non-ischemic Cardiomyopathy and Hypertrophic Cardiomyopathy
Miyako Igarashi (University of Tsukuba, Japan)

VT Ablation in End-Stage Heart Failure
Jun Kim (University of Ulsan College of Medicine, Republic of Korea)

Advancements in Catheter Ablation for Idiopathic Ventricular Fibrillation and Brugada Syndrome
Koonlawee Nademanee (Center of Excellence Arrhythmia Research Chulalongkorn University, Thailand)

Cardiac Imaging in Patients With Ventricular Tachycardia
Minsoo Kim (University of Ulsan College of Medicine, Republic of Korea)

Learning Objective

- 1) Understanding the latest therapeutic strategies or ventricular tachycardia ablation.
- 2) Understanding the role of imaging in ventricular tachycardia treatment.

MR EDUCATION

10:15 - 11:45 | Room 4 (Walker 1) | KOR

Chair Daewoo Hyun (Andong Medical Group Hospital, Republic of Korea)
Young Soo Lee (Daegu Catholic University College of Medicine, Republic of Korea)

Speaker **Beyond Pulmonary Vein Isolation: Advanced Ablation Strategies for Persistent Atrial Fibrillation**
Dae-In Lee (Korea University College of Medicine, Republic of Korea)

Biventricular vs. Conduction System Pacing in HFrEF Patients with LBBB: Comparative Insights
Dong-Hyeok Kim (Ewha Womans University School of Medicine, Republic of Korea)

Optimizing Workflows for Mapping and Ablation of Ventricular Tachycardia
Chang Hee Kwon (Konkuk University Professional Graduate School of Medicine, Republic of Korea)

Real-World Applications of Remote Monitoring in Arrhythmia Management
Do Young Kim (Ajou University School of Medicine, Republic of Korea)

Strengths and Limitations of Oral Anticoagulants: Tailoring Therapy for Diverse Populations
Yoon Jung Park (Kyungpook National University School of Medicine, Republic of Korea)

Learning Objective

- 1) 다양한 부정맥의 전극도자절제술의 최신 지견
- 2) 심부전 환자 조율 방식의 임상적 선택 기준
- 3) 원격 모니터링 기술의 실질적 활용을 중심으로 임상 현장에서 적용 가능한 실제적 지식과 경험을 공유

PROGRAM DETAILS

June 21 (Sat.)

ALLIED PROFESSIONAL 2

10:15 - 11:45 | Room 5 (Walker 2) | ENG

Cardiovascular Implantable Electronic Device

Chair **Hay Ran Yim** (School of Medicine, Sungkyunkwan University, Republic of Korea)
Nayun Kang (Dankook University Hospital, Republic of Korea)

Panel **Jaeek Jang** (Konkuk University Medical Center, Republic of Korea)
Mi Sook Cha (Gachon University Gill Medical Center, Republic of Korea)
Mitchell Cowan (Cardiac Physiology in Practice, Australia)

Speaker **Noise Artifacts Detected in a Pacemaker: What Is the Source?**
Hwanjoo Hwang (Eunpyeong St. Mary's Hospital, Republic of Korea)

Leadless Pacemaker: Performance and Complications
Jeonghun Chae (Korea University College of Medicine, Republic of Korea)

Tips and Tricks for a Left Bundle Branch Pacing Check
Jie-Ying (National University Hospital, Singapore)

Comparing Ventricular Synchrony in Left Bundle Branch and Left Ventricular Septal Pacing in Pacemaker Patients
Soyoung Park (Seoul National University Hospital, Republic of Korea)

Accuracy of Wearable Devices Compared with Conventional ECG
Dohee Kim (Severance Hospital, Republic of Korea)

Learning Objective

- 1) Advances in Pacemaker Technology: Accuracy, Performance Evaluation, and Clinical Optimization.
- 2) Advances and Challenges in Cardiac Pacing: Device Performance, Troubleshooting, and Physiological Pacing Strategies.

BOOTCAMP FOR RESIDENTS/FELLOWS

10:15 - 11:45 | Room 6 (Grand 4) | ENG/KOR

Toward Basics in Cardiac Electrograms

Chair Seongwook Han (KANG SHIM Heart Clinic, Republic of Korea)
Chun Hwang (CS Foundation, United States)

Panel Min Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Je-Wook Park (Yonsei University College of Medicine, Republic of Korea)
Min-Su Jung (Keimyung University School of Medicine, Republic of Korea)

Speaker **Starting Your Research Programme and Getting Published**
Gregory Lip (University of Liverpool, United Kingdom)

Principles of Cardiac Signals: From Generation to Recording
Ungeong Do (Chung-Ang University College of Medicine, Republic of Korea)

Principles of Pacing: Chamber Differentiation, Entrainment, Excitable Gap
Ki-Woon Kang (Chung-Ang University College of Medicine, Republic of Korea)

Essential Pacing Maneuvers: During Sinus Rhythm and Tachycardia
Melvin M. Scheinman (University of California San Francisco, United States)

Principles of 3D Mapping for Reentry
Moo Nyun Jin (Incheon Sejong Hospital, Republic of Korea)

Learning Objective

- 1) 본인 주도 연구의 시작에서부터 논문 게재까지 핵심과 유용한 전략을 습득한다.
- 2) 다양한 심장 전기생리학적 신호의 발생 기전부터 기록까지의 기본 원리 그리고 필수적인 전기생리학적 조율 술기의 원리를 이해한다.
- 3) 부정맥의 주요 기전 중 하나인 Reentry 원리를 이해하고, 3D mapping시 중요한 원리를 이해한다.

- 1) Acquire the core aspects and useful strategies from initiating own research to publish.
- 2) Understand the fundamental principles from the generation to the recording of intracardiac signals, as well as the principles of essential pacing maneuvers.
- 3) Understand the principle of 3D mapping for reentrant tachycardia.

PROGRAM DETAILS

June 21 (Sat.)

ORAL ABSTRACT 5 DIGITAL HEALTH, SCD, GENETICS, VT

10:15 - 11:45 | Room 7 (Grand 5) | ENG

Chair **Joong-Wha Chung** (Chosun University College of Medicine, Republic of Korea)
Erik Fung (Hong Kong University of Science and Technology, Hong Kong)

Presenter **Artificial Intelligence Derived Electrocardiographic Age and Sex and the Risk of New Onset Cardiovascular Disease**
Hanjin Park (Yonsei University College of Medicine, Republic of Korea)

Effects of Pacing Sites on Decrement-Evoked Potential Mapping for Scar-Related Ventricular Tachycardia
Jae-Sun Uhm (Yonsei University College of Medicine, Republic of Korea)

Impact of Blood Pressure on Sudden Cardiac Arrest in Diabetic Patients
Hyoungseok Lee (Korea University College of Medicine, Republic of Korea)

Predicting Mitral Stenosis with Artificial Intelligence-Powered Ecg Analysis for Appropriate Anticoagulation Treatment in Patients with Atrial Fibrillation
Jina Choi (Seoul National University College of Medicine, Republic of Korea)

Association of Stable Rotor, Dominant Frequency, Restitution, and Poor Rhythm Outcomes after Pulmonary Vein Isolation: A Digital Twin Study
Taehyun Hwang (Yonsei University College of Medicine, Republic of Korea)

Do Rotors Prefer Slow Zones? Mapping Their Relationship with Local Conduction Velocities in the LA Digital Twin
Taehyun Hwang (Yonsei University College of Medicine, Republic of Korea)

SCIENTIFIC SESSION (Daiichi Sankyo Korea & DAEWOONG PHARM) 12:00 - 12:50 | Room 1 (Vista 1) | KOR Common but Not Simple: Anticoagulation Therapy in Atrial Fibrillation Patients with Comorbidities

Chair **Seil Oh** (Seoul National University College of Medicine, Republic of Korea)
Nam-Ho Kim (Wonkwang University School of Medicine, Republic of Korea)

Speaker **Case Review: AF & High Bleeding risk**
Ki Hong Lee (Chonnam National University Medical School, Republic of Korea)

Case Review : AF & NOAC failure
Min Soo Cho (University of Ulsan College of Medicine, Republic of Korea)

Case Review: AF & Old age
Chan-Hee Lee (Yeungnam University College of Medicine, Republic of Korea)

SCIENTIFIC SESSION (Medtronic Korea)

12:00 - 12:50 | Room 3 (Vista 3) | ENG

Next-Gen Energy in Action: Clinical Insights from Dual Platforms

Chair **Hui-Nam Pak** (Yonsei University College of Medicine, Republic of Korea)
Il-Young Oh (Seoul National University College of Medicine, Republic of Korea)

Panel **Jeomseok Ko** (Wongwang University Hospital, Republic of Korea)
Youngjun Park (Yonsei University Wonju College of Medicine, Republic of Korea)
Hyo-Jeong Ahn (Seoul National University College of Medicine, Republic of Korea)

Speaker **PulseSelect in Real-World Practice: Patient Selection & Clinical Insights**
Devi Nair (St. Bernards Medical Centre, United States)

Clinical Evidence from an Integrated RF/PF Dual-Energy Ablation System
Kyoung-Ryul Julian Chun (CCB Frankfurt, Germany)

Q&A

PROGRAM DETAILS

June 21 (Sat.)

ATRIAL FIBRILLATION 4

13:10 - 14:40 | Room 1 (Vista 1) | ENG

Holistic Approach to AF Care

Chair **Eue-Keun Choi** (Seoul National University College of Medicine, Republic of Korea)
Prashanthan Sanders (University of Adelaide, Australia)

Panel **Ye Chan Kim** (School of Medicine, Sungkyunkwan University, Republic of Korea)
Hee Tae Yu (Yonsei University College of Medicine, Republic of Korea)
Dae-In Lee (Korea University College of Medicine, Republic of Korea)
Junyoung Lee (Yonsei University College of Medicine, Republic of Korea)

Speaker **Lifestyle Modifications and Risk Factor Management in AF**
Prashanthan Sanders (University of Adelaide, Australia)

Physical Activity: Effects on AF Risk and Outcomes
Hyo-Jeong Ahn (Seoul National University College of Medicine, Republic of Korea)

Alcohol's Impact on Atrial Fibrillation and Mortality
Yun Gi Kim (Korea University College of Medicine, Republic of Korea)

Cognitive Impairment in AF: Mechanisms and Interventions
Pil-sung Yang (KHRS, Republic of Korea)

Integrated Care for Atrial Fibrillation Using the ABC Pathway
Tze-Fan Chao (Taipei Veterans General Hospital, Taiwan)

Learning Objective

- 1) To learn about atrial fibrillation management through lifestyle modification.
- 2) To understand the risk and mechanisms of cognitive impairment in patients with atrial fibrillation.
- 3) To review comprehensive treatment strategies for atrial fibrillation based on current clinical guidelines.

CROSS SPECIALTY 2

13:10 - 14:40 | Room 2 (Vista 2) | KOR

Current Updates in Arrhythmia Surgery

Chair Young Keun On (School of Medicine, Sungkyunkwan University, Republic of Korea)
Jae-Seung Jung (Korea University College of Medicine, Republic of Korea)

Panel Minsu Kim (Chungnam National University College of Medicine, Republic of Korea)
Jun Hyung Kim (Chungnam National University College of Medicine, Republic of Korea)
Suryeun Chung (School of Medicine, Sungkyunkwan University, Republic of Korea)

Speaker **Video Case: Minimal Invasive Maze Operation**
Jae Suk Yoo (University of Ulsan College of Medicine, Republic of Korea)

Best Technical Tricks for Maze Operation
Joon Bum Kim (University of Ulsan College of Medicine, Republic of Korea)

AF, LAA and Its Neurological Implications
Yoonjin Kang (Seoul National University College of Medicine, Republic of Korea)

Updates in Staged Hybrid AF Ablation
Juwon Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

Long-Term Vision-The Future of Heart Surgery
Dong Seop Jeong (School of Medicine, Sungkyunkwan University, Republic of Korea)

Learning Objective

- 1) 부정맥 수술 분야의 최신 업데이트를 공유하고 이해합니다.
- 2) 최소 침습 부정맥 수술의 장단점을 이해하고 심장내과와의 협업에 참고할 수 있도록 합니다.
- 3) 심방세동 환자에서 발생하는 뇌졸중 예방 술식의 최신 지견을 알아봅니다.
- 4) 하이브리드 부정맥 치료의 미래에 대해 알아봅니다.

PROGRAM DETAILS

June 21 (Sat.)

INTERNATIONAL SOCIETY JOINT SESSION 3 (JHRS)

13:10 - 14:40 | Room 3 (Vista 3) | ENG

The Cardiac Conduction System: Implications in Both Physiology and Pathology

Chair **Gibyoung Nam** (University of Ulsan College of Medicine, Republic of Korea)
Wataru Shimizu (New Tokyo Hospital, Japan)

Panel **Soonil Kwon** (Seoul National University College of Medicine, Republic of Korea)
Hwa Jung Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)

Speaker **Purkinje-Related Ventricular Tachycardia and Ventricular Fibrillation: Solved and Unsolved Questions**
Yuki Komatsu (University of Tsukuba, Japan)

Ventricular Arrhythmias Involving the Conduction System: Case Discussions and Insights
Ju Youn Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)

Left Bundle Branch Area Pacing: What and Where Are We Truly Capturing?
Toshiaki Sato (Kyorin University, Japan)

The Future of Conduction System Pacing: Where, How, and with What Will We Capture?
Seung-Jung Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

Learning Objective

- 1) To understand the mechanisms and clinical features of Purkinje-related and conduction system associated ventricular arrhythmias, and to explore unresolved questions in this field.
- 2) To gain practical insights into diagnosis and treatment strategies through case-based discussions of ventricular arrhythmias involving the cardiac conduction system.
- 3) To investigate the physiological implications of capture sites in left bundle branch area pacing (LBBAP) and to anticipate future directions in CSP techniques, including where, how, and with what we will capture.

ARRHYTHMIA REVIEW COURSE 1
Basic, Bradycardia and Pacemaker

13:10 - 14:40 | Room 4 (Walker 1) | KOR

Chair **Nam-Ho Kim** (Wonkwang University School of Medicine, Republic of Korea)
 Moon-Hyung Lee (Yonsei University College of Medicine, Republic of Korea)

Speaker **Case Presentation**
 Juntae Kim (Dankook University College of Medicine, Republic of Korea)

Case Presentation
Jin-Kyu Park (Hanyang University College of Medicine, Republic of Korea)

Case Presentation
Kwang-No Lee (Ajou University School of Medicine, Republic of Korea)

Case Presentation
Sunhwa Kim (Presbyterian Medical Center, Republic of Korea)

Learning Objective

- 1) 여러가지 형태의 심방 또는 심실조기수축에 대해 알아봅니다.
- 2) 서맥 심전도를 확인하고 연관된 원인, 치료법 등에 대해 논의합니다.
- 3) 인공심박동기의 작동 원리를 이해하고, 심전도를 통한 인공심박동기의 작동 이상을 진단할 수 있습니다.

CIED 3

13:10 - 14:40 | Room 5 (Walker 2) | ENG

Making Leadless Pacemakers Fearless

Chair **Boyoung Jung** (Yonsei University College of Medicine, Republic of Korea)
Hyung Wook Park (Chonnam National University Medical School, Republic of Korea)

Panel **Hee-Jin Kwon** (Chungnam National University College of Medicine, Republic of Korea)
Hye Ree Kim (Gyeongsang National University College of Medicine, Republic of Korea)
Sang Jun Lee (Yonsei University Wonju College of Medicine, Republic of Korea)
Seunghoon Cho (Severance Cardiovascular Hospital, Republic of Korea)

Speaker **Updates on Dual-Chamber Leadless Pacemakers: Pioneering Advancements in Pacing Technology**
Hung-Fat Tse (The University of Hong Kong, Hong Kong)

AV Synchronization Algorithms for Leadless Pacemakers: Enhancing Synchronization for Better Outcomes
Yun Young Choi (Seoul National University College of Medicine, Republic of Korea)

Rate Responses in Leadless Pacemakers: Addressing Physiological Needs with Precision
Jongmin Hwang (Keimyung University School of Medicine, Republic of Korea)

Cardiac Resynchronization without Leads: The Path to Leadless Cardiac Resynchronization
Lae-Young Jung (Chonbuk National University Medical School, Republic of Korea)

Challenges in Leadless Pacemaker Extraction: A Focus on Safety and Feasibility
Devi Nair (St. Bernards Medical Centre, United States)

Learning Objective

- 1) Understand the latest advancements in leadless pacing technologies, including dual-chamber systems and novel rate response algorithms.
- 2) Review clinical strategies to optimize device selection, AV synchrony, and patient outcomes with leadless pacemakers.
- 3) Discuss challenges such as extraction feasibility and future directions, including leadless cardiac resynchronization therapy.

SPORTS CARDIOLOGY

13:10 - 14:40 | Room 6 (Grand 4) | ENG

Key Points of ECG Interpretation in Athletes

Chair Seongwook Han (KANG SHIM Heart Clinic, Republic of Korea)
Jin-Bae Kim (School of Medicine, Kyung Hee University, Republic of Korea)

Panel Yoo Ri Kim (Chonnam National University Medical School, Republic of Korea)
Hyoung-Seob Park (Keimyung University School of Medicine, Republic of Korea)
Seung Woo Lee (Ewha Womans University School of Medicine, Republic of Korea)

Speaker **International Recommendations for Electrocardiographic Interpretation in Athletes**
Erik Fung (Hong Kong University of Science and Technology, Hong Kong)

Bradycardia in Athletes, Is It Normal in Athletes?
In-Soo Kim (Yonsei University College of Medicine, Republic of Korea)

Atrial Fibrillation in Athletes and Exercise in Patients with Atrial Fibrillation
Woo-seok Lee (Yeosu Jeil Hospital, Republic of Korea)

Early Repolarization in Athletes
Hwan-Cheol Park (Hanyang University College of Medicine, Republic of Korea)

Left Ventricular Hypertrophy in Athletes: Is It Result of Exercise?
Kang-Un Choi (Yeungnam University College of Medicine, Republic of Korea)

Learning Objective

- 1) In this session, clinicians understand the characteristics of athletes' electrocardiograms (bradycardia, left ventricular hypertrophy [LVH], and early repolarization [ER]).
- 2) Clinicians understand the relationship between atrial fibrillation and exercise.

INDUSTRY SESSION (BMS Korea & Pfizer Korea)

13:10 - 14:40 | Room 7 (Grand 5) | ENG/KOR

A Comprehensive Approach to AF Care Across Healthcare Settings with Eliquis

Chair Seil Oh (Seoul National University College of Medicine, Republic of Korea)

Speaker **Holistic AF Care Across Healthcare Settings: From Tertiary to Primary Care with Eliquis**
Gregory Lip (University of Liverpool, United Kingdom)

Clinical Considerations for Anticoagulation: Eliquis Data Across Patient Profiles
Sung-Hwan Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)

PROGRAM DETAILS

June 21 (Sat.)

INDUSTRY SESSION (BAYER KOREA)

14:10 - 14:40 | Room 7 (Grand 5) | KOR

Optimizing Anticoagulation Strategies in NVAF Patients with Diabetes: A Comprehensive Approach

Chair Minsoo Ahn (Yonsei University Wonju College of Medicine, Republic of Korea)

Speaker **Optimizing Anticoagulation Strategies in NVAF Patients with Diabetes: A Comprehensive Approach**
Ki Hong Lee (Chonnam National University Medical School, Republic of Korea)

SPAF-LAAO JOINT WITH SPRINT

14:55 - 16:25 | Room 1 (Vista 1) | ENG

Chair Sun-uck Kwon (University of Ulsan College of Medicine, Republic of Korea)
Minsoo Ahn (Yonsei University Wonju College of Medicine, Republic of Korea)

Panel Jong Hun Kim (Korea University College of Medicine, Republic of Korea)
Hyung Jun Kim (School of Medicine, Sungkyunkwan University, Republic of Korea)
Oh Hyun Lee (Yonsei University College of Medicine, Republic of Korea)

Speaker **Primary vs. Secondary LAAO for SPAF in Patients with High Bleeding Risk**
Seung Yong Shin (Korea University College of Medicine, Republic of Korea)

Which Patients Would Benefit from LAAO? Neurologists' Perspective
Bum Joon Kim (University of Ulsan College of Medicine, Republic of Korea)

Is LAAO a Safer Option for SPAF Compared to DOAC?
Oussama Wazni (Cleveland Clinic, United States)

A Clinical Conundrum in SPAF: Accompanying PFO
Chi Kyung Kim (Korea University College of Medicine, Republic of Korea)

ICE-Guided LAA Closure: Practical Tips, Tricks, and Limitations
Young Choi (College of Medicine, The Catholic University of Korea, Republic of Korea)

Learning Objective

- 1) Understand current indications and issues for primary vs. secondary use of LAAO and patient selection with multi-disciplinary approach.
- 2) Compare the safety and efficacy of LAAO with DOACs based on recent data.
- 3) Gain practical tips for ICE-guided LAAO procedures, including technical challenges and solutions.

INDUSTRY SESSION (Medtronic Korea)

14:55 - 15:25 | Room 2 (Grand 2) | ENG

Micra™, 10 Years of Leadless Pacing

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

Panel **Youngjin Cho** (Seoul National University College of Medicine, Republic of Korea)
Yoo Ri Kim (Chonnam National University Medical School, Republic of Korea)

Speaker **Micra™, 10 years of Leadless Pacing EHJ supplement summary**
Deep Chandh Raja. S (Kauvery Hospital, India)

INDUSTRY SESSION (Sanofi)

15:55 - 16:25 | Room 2 (Vista 2) | KOR

Rhythm Control Strategy for AF

Speaker **The Optimal Strategy for Rhythm Control with Dronedaron**
Chang Hee Kwon (Konkuk University Professional Graduate School of Medicine, Republic of Korea)

PROGRAM DETAILS

June 21 (Sat.)

SCD 2

14:55 - 16:25 | Room 3 (Vista 3) | ENG

Innovations in SCD Management

Chair Myung Yong Lee (Dankook University College of Medicine, Republic of Korea)
Dae Hyeok Kim (Inha University School of Medicine, Republic of Korea)

Panel Moon-Hyun Kim (Yonsei University College of Medicine, Republic of Korea)
Chang-Ok Seo (Korea University College of Medicine, Republic of Korea)
Hyeon Jeong Oh (Inje University College of Medicine, Republic of Korea)

Speaker **Role of Genetic Testing in Inherited Arrhythmia Syndromes**

Wataru Shimizu (New Tokyo Hospital, Japan)

Beyond ICD: Catheter Ablation for Brugada Syndrome and ARVC

Fa-Po Chung (Taipei Veterans General Hospital, Taiwan)

Beyond ICD: Catheter Ablation for VT in Ischemic Cardiomyopathy

Kyoung-Min Park (School of Medicine, Sungkyunkwan University, Republic of Korea)

Sudden Cardiac Death Prevention in Hypertrophic Cardiomyopathy

Hancheol Lee (National Health Insurance Service Ilsan Hospital, Republic of Korea)

Refractory VF Storm: Focus on ECMO and Heart Transplantation

Jae-Seung Jung (Korea University College of Medicine, Republic of Korea)

Learning Objective

- 1) To understand the influence of genetic variation in inherited arrhythmia syndrome.
- 2) Catch up with cutting edge treatment for lethal ventricular arrhythmias: catheter ablation.
- 3) Learn how to bailout refractory VF storm.

ARRHYTHMIA REVIEW COURSE 2

14:55 - 16:25 | Room 4 (Walker 1) | KOR

Narrow and Wide QRS Tachycardia Cases

Chair Sangjin Han (College of Medicine, Hallym University, Republic of Korea)
Jin-Bae Kim (School of Medicine, Kyung Hee University, Republic of Korea)

Speaker **Narrow QRS Tachycardia Cases**
Jinhee Choi (Pusan National University School of Medicine, Republic of Korea)

Narrow QRS Tachycardia Cases
Kwangjin Chun (Kangwon National University School of Medicine, Republic of Korea)

Wide QRS Tachycardia Cases
Soonil Kwon (Seoul National University College of Medicine, Republic of Korea)

Wide QRS Tachycardia Cases
Hye Bin Gwag (School of Medicine, Sungkyunkwan University, Republic of Korea)

Learning Objective

- 1) Narrow QRS tachycardia 로 나타나는 다양한 부정맥을 알아 보고 감별 진단 방법을 공부합니다.
- 2) Wide QRS tachycardia 로 표현되는 다양한 부정맥 기전 (VT, SVT c underlying BBB or aberrancy, & preexcitation)을 공부합니다.

PROGRAM DETAILS

June 21 (Sat.)

CIED 4

14:55 - 16:25 | Room 5 (Walker 2) | ENG

Brand-New Applications of Cardiac Implantable Electronic Devices

Chair **June Namgung** (Inje University College of Medicine, Republic of Korea)
Jun Hyung Kim (Chungnam National University College of Medicine, Republic of Korea)

Panel **Jeongmin Kang** (Ewha Womans University School of Medicine, Republic of Korea)
Sung Soo Kim (Chosun University College of Medicine, Republic of Korea)
Jinsun Park (Hanyang University College of Medicine, Republic of Korea)
So Young Yang (School of Medicine, Kyung Hee University, Republic of Korea)

Speaker **Extravascular Implantable Cardioverter Defibrillators: Latest Updates and Innovations in ICD Technology**
Jumsuk Ko (Wonkwang University School of Medicine, Republic of Korea)

Bachmann Bundle Pacing: Strategies for Achieving Successful Outcomes
Toshiaki Sato (Kyorin University, Japan)

AV Node Ablation in the Era of Conduction System Pacing: Overcome the Irregularity
Young Jun Park (Yonsei University Wonju College of Medicine, Republic of Korea)

Innovation in Defibrillation Leads: The Clinical Impact of Lumenless Small-Diameter Design
Hung-Fat Tse (The University of Hong Kong, Hong Kong)

Remote Monitoring for CIEDs: Current Practices and Innovative Applications
Ga-In Yu (Gyeongsang National University College of Medicine, Republic of Korea)

Learning Objective

- 1) Review recent advancements in cardiac implantable electronic devices, including extravascular ICDs and lumenless defibrillation leads, and their clinical implications.
- 2) Explore novel physiologic pacing strategies, such as Bachmann bundle pacing and CSP-guided AV node ablation.
- 3) Understand the expanding role of remote monitoring technologies in optimizing device management and facilitating personalized care.

GREEN EP

14:55 - 16:25 | Room 6 (Grand 4) | ENG

Sustainability of the EP

Chair Eun-Jung Bae (Seoul National University College of Medicine, Republic of Korea)
Daewoo Hyun (Andong Medical Group Hospital, Republic of Korea)

Panel Juntae Kim (Dankook University College of Medicine, Republic of Korea)
Juseong Lee (Korea University College of Medicine, Republic of Korea)
JungMin Choi (Seoul National University College of Medicine, Republic of Korea)

Speaker **How Much Plastic Garbage Are We Producing from EP Procedures?**
Eun-Sun Jin (School of Medicine, Kyung Hee University, Republic of Korea)

Low-Plastic-Usage Strategy for AF Ablation
Sung-Hwan Kim (College of Medicine, The Catholic University of Korea, Republic of Korea)

Reuse of EP Catheters: Is It Safe?
Takanori Yamaguchi (Saga University, Japan)

Can We Reduce Carbon Footprint in EP Field?
Jae-Sun Uhm (Yonsei University College of Medicine, Republic of Korea)

Current Global Trends of Eco-Friendly Scientific Meetings
Yeonghye Yoon (Dongduk Women's University, Republic of Korea)

Learning Objective

- 1) The audience will know how serious the garbage issues are in EP procedures.
- 2) The audience will be able to know how to reduce plastic garbage for EP procedures.
- 3) The audience will be able to know how to reduce carbon footprint in medical fields.

INDUSTRY SESSION (Hanmi pharm)

14:55 - 15:25 | Room 7 (Grand 5) | KOR

Chair Jong-Il Choi (Korea University College of Medicine, Republic of Korea)

Speaker **What type of patients do we consider using Rivaroxaban for?**
Dong-Hyeok Kim (Ewha Womans University School of Medicine, Republic of Korea)

KHRS 2025

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