
PROGRAM BOOK

KHRS 2020 - VIRTUAL

The 12th Annual Scientific Session
of the Korean Heart Rhythm Society

November 20(Fri.) - 21(Sat.), 2020



대한부정맥학회
Korean Heart Rhythm Society

KHRS 2020 - VIRTUAL

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WELCOME MESSAGE

Dear Friends and Colleagues,

It is our great pleasure to invite you to our upcoming KHRS 2020: The 12th Annual Scientific Session of the Korean Heart Rhythm Society, which will be held virtually from November 20(Fri.) to 21(Sat.).

With the coronavirus crisis forcing us to defer KHRS 2020 to a later date, the Organizing Committee has made a decision to run a virtual conference this year since participants' health and safety are our top priorities. In order to satisfy your keen interest and continued support, KHRS 2020 will provide plenty of scientific programs, which will be joined by a number of experts in various fields.

KHRS 2020 is the one and only conference in South Korea that deals with all about arrhythmia from basic research to clinical content related to diagnosis and treatment. You will be able to meet up with globally renowned invited speakers through online, which will be a meaningful chance to share knowledge including the latest research trends in this field.

This year's KHRS will include live presentations and discussions with world-renowned scholars such as Dr. Gregory Lip, Dr. Akihiko Nogami, Dr. Shih-Ann Chen, and Dr. Kyoko Soejima. In particular, it will be held in conjunction with TTS 2020 (Tokyo-Taipei-Seoul Arrhythmia Joint Conference), providing a golden opportunity to interact with great scholars from Japan and Taiwan.

Especially, our invited speaker Dr. Warren Jackman will give a live presentation about 'Accessory Pathway'. Also the Scientific Session will feature a diverse array of lectures about AF, SPAF, VT, SCD, CIED, etc.

At a time when the COVID-19 pandemic has also had an impact on your research/academic activities, the Organizing Committee of KHRS 2020 has tried its best to provide an online platform for you to gain practical knowledge. Therefore, we cordially invite all of you to participate actively in the upcoming conference. We strongly believe that your active participation will make our 12th conference even more vibrant and fruitful.

Thank you.



Eun-Jung Bae
President
Korean Heart Rhythm Society
(KHRS)



Yong Seog Oh
Chairman, Board of Trustees
Korean Heart Rhythm Society
(KHRS)



Boyoung Joung
Chair, Scientific Committee
Korean Heart Rhythm Society
(KHRS)

ORGANIZING COMMITTEE

President	Eun-Jung Bae , Seoul National University College of Medicine
Chairman	Yong Seog Oh , College of Medicine, The Catholic University of Korea
Vice President	Kee-Joon Choi , University of Ulsan College of Medicine
General Secretary	Jong-Il Choi , Korea University College of Medicine
Finance Committee Chair	Dae Hyeok Kim , Inha University School of Medicine
	Dae Kyeong Kim , Inje University College of Medicine
Scientific Committee Chair	Boyoung Jung , Yonsei University College of Medicine
Publicity Committee Chair	Gyo-Seung Hwang , Ajou University School of Medicine
Medical Information Committee Chair	Seongwook Han , Keimyung University School of Medicine
Publication Committee Chair	Tae-Joon Cha , Kosin University College of Medicine
Research Committee Chair	Young Keun On , School of Medicine, Sungkyunkwan University
Insurance Committee Chair	Hui-Nam Pak , Yonsei University College of Medicine
	Myung-Yong Lee , Dankook University College of Medicine
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	Sung-Won Jang , College of Medicine, The Catholic University of Korea
	Sang Weon Park , Sejong General Hospital
Education Committee Chair	Byung-Chun Jung , Daegu Fatima Hospital
	Hyung Wook Park , Chonnam National University Medical School
International Exchange Committee Chair	Seil Oh , Seoul National University College of Medicine
Allied Professional Chair	Nam Ho Kim , Wonkwang University School of Medicine
Audit Committee Chair	June Namgung , Inje University College of Medicine
	Hong Euy Lim , College of Medicine, Hallym University
Korean Juniorhythm Chair	Dae In Lee , Chungbuk National University College of Medicine
Nominating Committee Chair	Young-Hoon Kim , Korea University College of Medicine
Interventional Electrophysiology Specialist Qualification Committee Chair	Moon Hyoung Lee , Yonsei University College of Medicine

INTERNATIONAL FACULTY MEMBERS

China	Dan Hu , Renmin Hospital of Wuhan University
Hong Kong	Joseph YS Chan , The Chinese University of Hong Kong
	Ngai-Yin Chan , Princess Margaret Hospital
	Hung-Fat Tse , The University of Hong Kong
Indonesia	Yoga Yuniadi , University of Indonesia
Japan	Koichiro Ejima , Tokyo Women's Medical University *
	Miyako Igarashi , University of Tsukuba *
	Koichi Inoue , Sakurabashi Watanabe Hospital *
	Yoshiaki Kaneko , Gunma University Graduate School of Medicine
	Shinsuke Miyazaki , Fukui University
	Akihiko Nogami , University of Tsukuba
	Seiko Ohno , National Cerebral and Cardiovascular Center
	Tetsuo Sasano , Tokyo Medical and Dental University
	Kyoko Soejima , Kyorin University
	Naokata Sumitomo , Saitama Medical University International Medical Center
	Seiji Takatsuki , Keio University School of Medicine *
Yukiomi Tsuji , Nagasaki University	
Akiko Ueda , Kyorin University School of Medicine *	
Singapore	Chi Keong Ching , National Heart Centre Singapore
	Kelvin Chua , National Heart Centre Singapore
	Yih Yng Ng , Tan Tock Seng Hospital

Taiwan	Shih-Ann Chen , Taipei Veterans General Hospital
	Yung-Lung Chen , Kaohsiung Chang Gung Memorial Hospital
	Fa-Po Chung , Taipei Veterans General Hospital *
	Ming-Hsiung Hsieh , Wan-Fang Hospital, Taipei Medical University *
	Yu-Cheng Hsieh , Taichung Veterans General Hospital
	Yu-Feng Hu , Taipei Veterans General Hospital *
	Cheng-Hung Li , Taichung Veterans General Hospital *
	Chin-Yu Lin , Taipei Veterans General Hospital
	Li-Wei Lo , Taipei Veterans General Hospital *
	Hsuan-Ming Tsao , National Yang Ming University Hospital *
	Wei-Chung Tsai , Kaohsiung Medical University
	Yung-Hsin Yeh , Chang-Gung Memorial Hospital
Thailand	Sirin Apiyasawat , Ramathibodi Hospital
Vietnam	Kieu Ngoc Dung , Cho Ray Hospital
United Kingdom	Gregory Lip , University of Liverpool
United States	Chun Hwang , Revere Health
	Warren Jackman , OU Medical Center
	Sung Woo Lee , Georgetown University

* TTS Faculty Member

VIRTUAL SITE INFORMATION

·Virtual Site www.khrs-scientific.kr
·Streaming Date 11/20(Fri.) - 21(Sat.)

계정 **ID** Your Email **PW** Your ID of Email
예시 **ID** khrs2020@khers.com **PW** khrs2020

※최초 접속 후, 보안을 위해 비밀번호를 변경해주시기 바랍니다.

- VIRTUAL 사이트 평점 부여 기준

- 11/20(금) - 11/21(토)에만 평점 부여 가능
- 서버에 기록된 하루 실강의 수강시간 최소 1시간 이상

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

- VIRTUAL 강의 수강 방법

STEP 1 로그인

위 내용 참고

※세션룸에서 동일한ID로 중복 로그인 시, 기존 화면은 자동 로그아웃 됩니다.

STEP 2 PROGRAM 클릭

수강을 원하는 세션의 시간 및 장소 확인 후 해당 세션룸에 입장합니다.

STEP 3 [ENTER] 버튼 클릭

세션룸 접속시작 시간이 기록됩니다. ※정규 세션시간만 이수시간으로 인정됩니다. (Break Time 포함X)

STEP 4 [EXIT] 버튼 클릭

세션룸 접속종료 시간이 기록됩니다.

STEP 5 My Page 확인

기록된 접속시간은 VIRTUAL 사이트의 'My Page'에서 확인 가능합니다.

DAY 1

NOV 20 (Fri)

LIVE SESSION				
Time / Room	Room 1	Room 2	Room 3	Room 4
08:30-10:00	Accessory Pathway		Artificial Intelligence and Signal Data Analysis	Ventricular Tachycardia 1
Break				
10:15-11:45	CIED 1		Clinical Application of Wearable Devices	Smart Health Care & AI 1
Break				
12:00-13:00	Scientific Session (Pfizer Korea /BMS Korea)	Scientific Session (Bayer)	Scientific Session (ABBOTT)	
Break				
13:15-14:45	SPAF		Atrial Fibrillation 2	Policy & New Technology
Break				
15:00-16:30	Atrial Fibrillation 3		Ventricular Tachycardia 2	MR Education

KHRS 2020

PROGRAM AT A GLANCE

		개원의 연수교육	LEARNING CENTER	ABSTRACT	
Room 5	Room 6			E-ORAL	E-POSTER
SCD 1	What's New About the Management of AF in 2020		SANOFI 09:45-10:15		
Pediatric & Congenital	Atrial Fibrillation 1		Johnson & Johnson Medical Korea 11:30-12:00		
			SAMJIN PHARM 12:45-13:15		
		2020 개원의 및 전공의 NOAC 연수교육 1 13:00-14:00			
Basic	EGM Tracing 1		Medtronic Korea Ltd. 14:30-15:00		
YIA Competition	EGM Tracing 2				

DAY 2

NOV 21 (Sat)

LIVE SESSION

Time / Room	Room 1	Room 2	Room 3	Room 4
08:30-10:00	Atrial Fibrillation 4	TTS 1	Atrial Fibrillation 5	CIED & VT
Break				
10:15-11:45	SCD 2	TTS 2	Atrial Fibrillation 6	PSVT 1
Break				
12:00-13:00	Scientific Session (DaiichiSankyo -Daewoong)	Scientific Session (Chong Kun Dang)		
Break				
13:15-14:45	Ventricular Tachycardia 3	TTS 3	Atrial Fibrillation 8	Smart Health Care & AI 2
Break				
15:00-16:30	PSVT 2	TTS 4	Atrial Fibrillation 9	Noninvasive
Break				
16:45	General Assembly of KHRS 2020			

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PROGRAM AT A GLANCE

Room 5		Room 6	개원의 연수교육	LEARNING CENTER	ABSTRACT	
CIED 2		Arrhythmia Review Course 1 Arrhythmia Review Course 2				BORYUNG Pharmaceutical 09:45-10:15
Atrial Fibrillation 7		Arrhythmia Review Course 3 Arrhythmia Review Course 4		ABBOTT 11:30-12:00		
				Bayer 12:45-13:15		
CIED 3		SCD 3	2020 개원의 및 전공의 NOAC 연수교육 2 13:00-14:00	Pfizer Korea / BMS Korea 14:30-15:00		
SCD 4		EKG Educational Course				

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PROGRAM DETAILS

NOV 20 (Fri)

NOV 21 (Sat)



PROGRAM DETAILS

Accessory Pathway

08:30-10:00 | Room 1 

Chairs Eun-Jung Bae, Seoul National University College of Medicine
Yong Seog Oh, College of Medicine, The Catholic University of Korea

Speaker **Techniques for Recording and Validating Accessory Pathway Potentials**
Warren Jackman, OU Medical Center, United States

Artificial Intelligence and Signal Data Analysis

08:30-10:00 | Room 3 

Chair June Soo Kim, School of Medicine, Sungkyunkwan University

Speakers **Basic Concept of Artificial Intelligence (AI)**
Hyeonseung Im, Kangwon National University

Clinical Research in Medical Field
Junbeom Park, Ewha Womans University School of Medicine

Vital Sign Signal and AI
Segyeong Joo, University of Ulsan College of Medicine

Corporates **Presentation**

AliveCor
ATsens Co.,Ltd.
DREAMTECH Co., Ltd.
Huinno Co., Ltd.
MEZOO Co., Ltd
Sky Labs

Panels **Discussion**
Dae Hyeok Kim, Inha University School of Medicine
Seung-Jung Park, School of Medicine, Sungkyunkwan University
Yong Soo Baek, Inha University School of Medicine
Namsik Yoon, Chonnam National University Medical School

PROGRAM DETAILS

Ventricular Tachycardia 1

08:30-10:00 | Room 4 

Chairs Dae-Woo Hyun, Andong Medical Group Hospital
Hyung Wook Park, Chonnam National University Medical School

Speakers **VT Ablation in Epicardial VT (Tips & Trick)**
Chin-Yu Lin, Taipei Veterans General Hospital, Taiwan

Fever and Brugada Syndrome
Dan Hu, Renmin Hospital of Wuhan University, China

Useful Tips for Successful Ablation of LVVT
Seung-Young Roh, Korea University College of Medicine

PVC-induced Cardiomyopathy
Kyoung-Min Park, School of Medicine, Sungkyunkwan University

Useful Tips for Successful Ablation of OTVT
Hyung Wook Park, Chonnam National University Medical School

SCD 1

08:30-10:00 | Room 5 

Chairs Dong Jin Oh, College of Medicine, Hallym University
Gi-Byoung Nam, University of Ulsan College of Medicine

Speakers **Epidemiology of Out of Hospital Arrest in Korea (The Struggle against SCD)**
Dong Jin Oh, College of Medicine, Hallym University

Long QT Syndrome
Yongkeun Cho, Kyungpook National University School of Medicine

Sudden Cardiac Death in Hypertrophic Cardiomyopathy
Yae Min Park, Gachon University School of Medicine

Arrhythmias in Infiltrative Cardiomyopathy -Focusing on Cardiac Amyloidosis-
Jongmin Hwang, Keimyung University School of Medicine

An Update on the Diagnosis and Management of Catecholaminergic Polymorphic Ventricular Tachycardia
Seiko Ohno, National Cerebral and Cardiovascular Center, Japan

PROGRAM DETAILS

What's New About the Management of AF in 2020

08:30-10:00 | Room 6 

Chairs Choong Hwan Kwak, Gyeongsang National University College of Medicine
Nam Ho Kim, Wonkwang University School of Medicine

Speakers **Structured Characterization of AF, and Optimal Anticoagulation Therapy**
Jung Myung Lee, School of Medicine, Kyung Hee University

Updated Recommendation on AF Ablation in New Guideline
Jin-Kyu Park, Hanyang University College of Medicine

How to Manage Cardiovascular Risk Factors in AF
Pil-Sung Yang, CHA University

Paradigm Shift in Rhythm Control Therapy of AF
Jaemin Shim, Korea University College of Medicine

What is the Optimal Management for Extremely Fragile Patients?
Tae-Hoon Kim, Yonsei University College of Medicine

CIED 1

10:15-11:45 | Room 1 

Chairs Myung-Yong Lee, Dankook University College of Medicine
Dae Kyeong Kim, Inje University College of Medicine

Speakers **Leadless Pacemakers: A Contemporary Review**
Joseph YS Chan, The Chinese University of Hong Kong, Hong Kong

Lead Extraction (Preparation, Laser Cases)
Sirin Apiyasawat, Ramathibodi Hospital, Thailand

Asian Experience on SICD
Hung-Fat Tse, The University of Hong Kong, Hong Kong

PROGRAM DETAILS

Clinical Application
of Wearable Devices10:15-11:45 | Room 3 **Chair** Dong-Gu Shin, Yeungnam University College of Medicine**Speakers** **Clinical Research of Wearable Device**

Yoo Ri Kim, Dongguk University School of Medicine

It is Proper to Use Wearable Device in Real Practice - Pro

Dong-Hyeok Kim, Ewha Womans University School of Medicine

It is Proper to Use Wearable Device in Real Practice - Con

Seung-Young Roh, Korea University College of Medicine

Panels **Discussion**

Young Soo Lee, Daegu Catholic University College of Medicine

Nam Ho Kim, Wonkwang University School of Medicine

June Namgung, Inje University College of Medicine

Gyo-Seung Hwang, Ajou University School of Medicine

Smart Health Care & AI 1

10:15-11:45 | Room 4 **Chairs** Choong Hwan Kwak, Gyeongsang National University College of Medicine
Joong Wha Chung, Chosun University College of Medicine**Speakers** **Novel Wearable Devices in Cardiovascular Fields for Monitoring Arrhythmia**

Jumsuk Ko, Wonkwang University School of Medicine

Clinical Implication of Mobile Web Based/Wearable Cardiac Rhythm Monitoring

Jinhee Ahn, Pusan National University School of Medicine

The 4th Industrial Revolution and Future Medicine

Joong Wha Chung, Chosun University College of Medicine

Clinical Application of Artificial Intelligence in Arrhythmia

Yong Soo Baek, Inha University School of Medicine

Artificial Intelligence and Arrhythmia

Junbeom Park, Ewha Womans University School of Medicine

PROGRAM DETAILS

Pediatric & Congenital

10:15-11:45 | Room 5 ENG

Chairs Jaekon Ko, University of Ulsan College of Medicine
Myung Chul Hyun, Kyungpook National University School of Medicine

Speakers **Risk Analysis of SCD in Pediatric HCMP**

Mi Kyoung Song, Seoul National University College of Medicine

Noninvasive Radioablation for Ventricular Tachycardia in Children

Jae-Sun Uhm, Yonsei University College of Medicine

Role of RFCA for Prevention of Pediatric SCD

Naokata Sumitomo, Saitama Medical University International Medical Center, Japan

Technical Aspects of ICD in Congenital Heart Disease

June Huh, School of Medicine, Sungkyunkwan University

Device Therapy and Heart Failure in Congenital Heart Disease

Ji-Eun Ban, Ewha Womans University School of Medicine

Atrial Fibrillation 1

10:15-11:45 | Room 6 ENG

Chairs Kee-Joon Choi, University of Ulsan College of Medicine
Eun Sun Jin, School of Medicine, Kyung Hee University

Speakers **Gap between RCT and Real World Data in AF Ablation**

Boyoung Joung, Yonsei University College of Medicine

PV Isolation: Shorter Burning or Longer Freezing?

Hui-Nam Pak, Yonsei University College of Medicine

Substrate of AF: Insight into Catheter Ablation

Jong-Il Choi, Korea University College of Medicine

Neural Modulation for AF

Seil Oh, Seoul National University College of Medicine

Multielectrode/Omnipolar Mapping Technology to Address the Limitation of Traditional Bipolar Mapping

Li-Wei Lo, Taipei Veterans General Hospital, Taiwan

PROGRAM DETAILS

Scientific Session
(Pfizer Korea / BMS Korea)
12:00-13:00 | Room 1 
Chair Hui-Nam Pak, Yonsei University College of Medicine

Speakers **Recent Update on Eliquis for NVAF Patients with Renal Impairment**

Sean Pokorney, Duke University, United States

**How to Manage Anticoagulation Therapy in Elderly NVAF Patients:
 Key Updates from Eliquis Data**

Eue Keun Choi, Seoul National University College of Medicine

Scientific Session (Bayer):
 Thanks to the Protection You Provide
 for Your Cardio Vascular Patients

12:00-13:00 | Room 2 
Chairs Nam Ho Kim, Wonkwang University School of Medicine
 Young Keun On, School of Medicine, Sungkyunkwan University

Speakers **What is the Optimal NOAC for Korean NVAF Patients with Specific Considerations?**

Tae-Hoon Kim, Yonsei University College of Medicine

New Perspective in the Management of NVAF Patients with DM

Ki Hong Lee, Chonnam National University Medical School

PROGRAM DETAILS

Scientific Session (ABBOTT):

Arrhythmia Management Session :
Breakthrough Technologies and Approaches

12:00-13:00 | Room 3 

Speakers **Isochronal Late Activation Mapping in Atrial Fibrillation and Atypical Flutter Ablation**

Christopher Woods, Sutter Health's Mills-Peninsula Medical Center, United States

Next Generation High Voltage with Bluetooth Remote Monitoring

Kartikeya Bhargava, Medanta Heart Institute, India

2020 개원의 및 전공의 NOAC 연수교육 1

13:00-14:00 | 개원의 연수교육 

Chairs Byung-Chun Jung, Daegu Fatima Hospital
Dae Kyeong Kim, Inje University College of Medicine

Speakers **심방세동 환자에서 뇌졸중 예방을 위한 항응고 치료**
Namsik Yoon, Chonnam National University Medical School

일반적인 항응고제의 제형 및 특성

Dongmin Kim, Dankook University College of Medicine

PROGRAM DETAILS

SPAF

13:15-14:45 | Room 1 

Chairs June Soo Kim, School of Medicine, Sungkyunkwan University
Yong Seog Oh, College of Medicine, The Catholic University of Korea

Speakers **Obstructive Sleep Apnoea and Atrial Fibrillation: A Sleepy Issue?**

Gregory Lip, University of Liverpool, United Kingdom

Update on Anticoagulation Therapy for Subclinical AF

Chi Keong Ching, National Heart Centre Singapore, Singapore

Integrated Care for Patients - From Trial to Clinical Practice

Boyoung Joung, Yonsei University College of Medicine

Atrial Fibrillation 2

13:15-14:45 | Room 3 

Chairs Man Young Lee, College of Medicine, The Catholic University of Korea
Dae Hyeok Kim, Inha University School of Medicine

Speakers **Principles of Antiarrhythmic Drugs**

Seil Oh, Seoul National University College of Medicine

Computational Modeling of AAD Responsiveness to AF

Hui-Nam Pak, Yonsei University College of Medicine

AF Ablation Using High-Density Mapping: Comparison of Different 3D Navigation System

Hyoungh-Seob Park, Keimyung University School of Medicine

The Role of Epicardial Conduction in Persistent AF

Jin-Bae Kim, School of Medicine, Kyung Hee University

Efficacy and Safety of Current Cryoballoon Ablation for Atrial Fibrillation

Shinsuke Miyazaki, Fukui University, Japan

PROGRAM DETAILS

Policy & New Technology

13:15-14:45 | Room 4 

Chairs Sang Weon Park, Sejong General Hospital
Dae-Woo Hyun, Andong Medical Group Hospital

Speakers **New CIED Technologies Not Available in Korea**
Jung Hoon Sung, CHA University

Ablation

Sung-Won Jang, College of Medicine, The Catholic University of Korea

Antiarrhythmic Medications

Chang Hee Kwon, Konkuk University Professional Graduate School of Medicine

Remote Monitoring of CIED in Korea

Sang Weon Park, Sejong General Hospital

Basic

13:15-14:45 | Room 5 

Chair June Namgung, Inje University College of Medicine

Speakers **Arrhythmias Related to PM-2.5 Exposure**
Li-Wei Lo, Taipei Veterans General Hospital, Taiwan

Gap Junction and Ventricular Arrhythmia during Therapeutic Hypothermia

Yu-Cheng Hsieh, Taichung Veterans General Hospital, Taiwan

Depolarization and Repolarization Abnormality of J Wave Syndrome

Namsik Yoon, Chonnam National University Medical School

Fibrosis as a Mechanism of Atrial Fibrillation

Jong-Il Choi, Korea University College of Medicine

COVID-19 and Cardiovascular Disease

Myung-Jin Cha, Seoul National University College of Medicine

PROGRAM DETAILS

EGM Tracing 1

13:15-14:45 | Room 6 **Chair** Seongwook Han, Keimyung University School of Medicine**Speaker** **Case 1-4**
Chun Hwang, Revere Health, United States

Atrial Fibrillation 3

15:00-16:30 | Room 1 **Chairs** June Soo Kim, School of Medicine, Sungkyunkwan University
Kee-Joon Choi, University of Ulsan College of Medicine**Speakers** **Can We Drop Aspirin Immediately after Hospital Discharge in Atrial Fibrillation Patients Undergoing PCI?**

Gregory Lip, University of Liverpool, United Kingdom

Fluoroscopy Only Guided LAA Closure

Yoga Yuniadi, University of Indonesia, Indonesia

Real World Data of NOAC

Eue Keun Choi, Seoul National University College of Medicine

PROGRAM DETAILS

Ventricular Tachycardia 2

15:00-16:30 | Room 3 

Chairs Nam Ho Kim, Wonkwang University School of Medicine
Kyoung-Min Park, School of Medicine, Sungkyunkwan University

- Speakers** **Neural Modulation in Patients with VT Refractory to RF Ablation**
Ki-Woon Kang, Eulji University School of Medicine
- The Feasibility of Magnetic Navigation System for VT Ablation**
Yong Seog Oh, College of Medicine, The Catholic University of Korea
- Wide QRS Tachycardia**
Gi-Byoung Nam, University of Ulsan College of Medicine
- Localization of VT**
Seongwook Han, Keimyung University School of Medicine
- VT Ablation in Hemodynamic Unstable Patients**
Kwang-No Lee, Ajou University School of Medicine

MR Education

15:00-16:30 | Room 4 

Chair Byung-Chun Jung, Daegu Fatima Hospital

- Speakers** **부정맥 치료 방법**
Jun-Hyung Kim, Chungnam National University College of Medicine
- 심방세동이란 (원인, 치료)**
Jin Bae Lee, Daegu Catholic University College of Medicine
- 부정맥 질환의 심각성**
Hye Bin Gwag, School of Medicine, Sungkyunkwan University
- 심방세동 항응고요법**
Young Ah Park, Inje University College of Medicine

PROGRAM DETAILS

YIA Competition

15:00-16:30 | Room 5 ENG**Chair** Boyoung Joung, Yonsei University College of Medicine**Judges** Jung Hoon Sung, CHA University
Eun Sun Jin, School of Medicine, Kyung Hee University
Hong Euy Lim, College of Medicine, Hallym University
Yae Min Park, Gachon University School of Medicine
Jaemin Shim, Korea University College of Medicine
Sung-Hwan Kim, College of Medicine, The Catholic University of Korea**Speakers** **New Algorithm for Accessory Pathway Localization Focused on Screening Septal Pathways in Pediatric Patients with Wolff-Parkinson-White Syndrome**

Seung Min Baek, Seoul National University Children's Hospital

The Correlation between Left Atrial Appendage Adipose Tissue and Clinical Recurrence of Atrial Fibrillation after Modified Cox-Maze III Operation from Human Tissue Pathologic Analysis

Hyo-Hyun Kim, Severance Cardiovascular Hospital, Yonsei University College of Medicine

Blood Flow Volume of Left Atrial Appendage Measured by Magnetic Resonance Imaging is Improved after Radiofrequency Catheter Ablation of Atrial Fibrillation

Kyongjin Min, Korea University Anam Hospital

Co-Delivery of Curcumin and miR-144-3p by Heart-Targeted Extracellular Vesicles Facilitate Treatment of Arrhythmias after Myocardial Infarction in Mice

Ji-Young Kang, Yonsei University College of Medicine

Exercise Habits and the Risk of Stroke, Heart Failure, and Mortality in Patients with Incident Atrial Fibrillation: A Nationwide Population-Based Cohort Study

Hyo-Jeong Ahn, Seoul National University Hospital

Prognostic Significance of 24 Hours Ambulatory Blood Pressure Monitoring in Patients without Atrial Fibrillation

Sojeong Park, Ewha Womans University School of Medicine

EGM Tracing 2

15:00-16:30 | Room 6 ENG**Chair** Sung-Won Jang, College of Medicine, The Catholic University of Korea**Speaker** **Case 1-4**
Akihiko Nogami, University of Tsukuba, Japan

PROGRAM DETAILS

Atrial Fibrillation 4

08:30-10:00 | Room 1 ENG

Chairs Yong Seog Oh, College of Medicine, The Catholic University of Korea
Hui-Nam Pak, Yonsei University College of Medicine

Speakers **How to Use Anticoagulants in Cases of Absence of LAA**

Yong Seog Oh, College of Medicine, The Catholic University of Korea

Atrial Fibrillation Ablation with Balloon Technologies, Cryo Balloon vs RF Balloon

Sung Woo Lee, Georgetown University, United States

Leadless Pacemaker

Sung Woo Lee, Georgetown University, United States

Gene Expression Profiles in the Left Atria of Patients with Valvular Atrial Fibrillation

Yung-Hsin Yeh, Chang-Gung Memorial Hospital, Taiwan

TTS 2020: Welcome Address/Opening Remarks

Welcome Address Yong Seog Oh, College of Medicine, The Catholic University of Korea

Opening Remarks Young-Hoon Kim, Korea University College of Medicine
Akihiko Nogami, University of Tsukuba, Japan
Shih-Ann Chen, Taipei Veterans General Hospital, Taiwan

TTS 1: Advancement in Brugada Syndrome

08:30-10:00 | Room 2 ENG

Chairs Gi-Byoung Nam, University of Ulsan College of Medicine
Akiko Ueda, Kyorin University School of Medicine, Japan

Speakers **Novel Electrophysiology of Brugada Syndrome**

Fa-Po Chung, Taipei Veterans General Hospital, Taiwan

Use of Deep Learning Technique in Analyzing ECG Pattern for Diagnosis of Brugada Syndrome

Yu-Feng Hu, Taipei Veterans General Hospital, Taiwan

Early Repolarization Pattern in University Athletes: Insight from the 2015 Gwangju Summer Universiade

Namsik Yoon, Chonnam National University Medical School

PROGRAM DETAILS

Atrial Fibrillation 5

08:30-10:00 | Room 3 ENG

Chairs Young Keun On, School of Medicine, Sungkyunkwan University
Doosang Kim, Veterans Health Service Medical Center

Speakers **Complication Rate and Annual Trend of AF Ablation**

Pil-Sung Yang, CHA University

Ablation of Persistent AF: Comparison of Different Ablation Techniques Beyond PVI

Young-Hoon Kim, Korea University College of Medicine

**Modifiable Risk Factors for Incident Atrial Fibrillation in Korea
(e.g. Insulin Resistance, Inflammation, Smoking)**

Jin-Kyu Park, Hanyang University College of Medicine

Hybrid Approach of AF Treatment: Thoracoscopic and Catheter Ablation

Young Keun On, School of Medicine, Sungkyunkwan University

CIED & VT

08:30-10:00 | Room 4 ENG

Chair Dong-Gu Shin, Yeungnam University College of Medicine

Speakers **Current Status of Cardiac Device Therapy for Primary Prevention of Sudden Arrhythmic Death in Busan, Ulsan, and Gyeong-nam Areas**

Jong Sung Park, Dong-A University College of Medicine

Is Not Defibrillation Threshold Testing Really Necessary during ICD Implantation?

Myung Hwan Bae, Kyungpook National University School of Medicine

Difference of Korean CIEDs Indications from AHA/ACC/HRS CIEDs Indications

Dong-Hyeok Kim, Ewha Womans University School of Medicine

Noninvasive Cardiac Radiation for Ablation of Ventricular Tachycardia

Myung-Jin Cha, Seoul National University College of Medicine

PROGRAM DETAILS

CIED 2

08:30-10:00 | Room 5 ENG

Chairs Moon Hyoung Lee, Yonsei University College of Medicine
June Huh, School of Medicine, Sungkyunkwan University

Speakers **Efficacy and Safety of His Bundle Pacing**
Kieu Ngoc Dung, Cho Ray Hospital, Vietnam

**The Role of Physiological Pacing in Pacemaker Dependent Patients:
RV Septal Pacing, His Bundle Pacing**
Jung Hoon Sung, CHA University

Feasibility and Clinical Outcomes of LBB Pacing
Tae-Hoon Kim, Yonsei University College of Medicine

Tip of SCD Implantation
Sang Weon Park, Sejong General Hospital

How to Perform His-Purkinje System Pacing in Patients with Bradycardia?
Ngai-Yin Chan, Princess Margaret Hospital, Hong Kong

Arrhythmia Review Course 1:
Basic Interpretation of Arrhythmia

08:30-09:15 | Room 6 KOR

Program Director Man Young Lee, College of Medicine, The Catholic University of Korea

Speakers Ji Hyun Lee, Seoul National University College of Medicine
Young Jun Park, Yonsei University College of Medicine
Hancheol Lee, National Health Insurance Service Ilsan Hospital

PROGRAM DETAILS

DAY 2, NOV 21

Arrhythmia Review Course 2: Basic Bradycardia and Pacemaker

09:15-10:00 | Room 6 KOR

Program Director Gyo-Seung Hwang, Ajou University School of Medicine

Speakers Chan Hee Lee, Yeungnam University College of Medicine
In Geol Song, Baekje General Hospital
Hyun Jun Cho, Daegu Fatima Hospital

SCD 2

10:15-11:45 | Room 1 ENG

Chairs Yongkeun Cho, Kyungpook National University School of Medicine
Gi-Byoung Nam, University of Ulsan College of Medicine

Speakers **Mechanisms of Electrical Storm: Rotors Anchored by Enhanced NaV1.8 Dependent Late Sodium Current as a Driver of Torsades de Pointes**

Yukiomi Tsuji, Nagasaki University, Japan

Calcium Handling Abnormalities Underlying SCD

Yung-Hsin Yeh, Chang-Gung Memorial Hospital, Taiwan

Inherited Arrhythmia Syndrome Predisposing to SCD

Jong-Il Choi, Korea University College of Medicine

PROGRAM DETAILS

TTS 2: How to Improve Clinical Outcome of Catheter Ablation of AF

10:15-11:45 | Room 2 ENG

Chairs Seil Oh, Seoul National University College of Medicine
Ming-Hsiung Hsieh, Wan-Fang Hospital, Taipei Medical University, Taiwan

Speakers **Ten-Year Outcome of Catheter Ablation in Patients with Persistent Atrial Fibrillation**
Li-Wei Lo, Taipei Veterans General Hospital, Taiwan

High-Power Radiofrequency Ablation Guided by Unipolar Signal Modification for Pulmonary Vein Isolation

Koichiro Ejima, Tokyo Women's Medical University, Japan

Importance of Atrial Substrate in Catheter Ablation of Atrial Fibrillation
Yong Soo Baek, Inha University School of Medicine

Atrial Fibrillation 6

10:15-11:45 | Room 3 ENG

Chairs Jae-Jin Kwak, Inje University College of Medicine
Jun-Hyung Kim, Chungnam National University College of Medicine

Speakers **Risk Factor for AF (HTN, DM, Alcohol, Sex)**

Yun Gi Kim, Korea University College of Medicine

Weight Change and Obesity

Yeong-Min Lim, St. Carollo Hospital

Physical Activity

Moo Nyun Jin, Inje University College of Medicine

The Role of Posterior Wall Isolation in Patients with Persistent Atrial Fibrillation

Jaemin Shim, Korea University College of Medicine

Does Myocardial Infarction Beget Atrial Fibrillation and Atrial Fibrillation Beget Myocardial Infarction?

Hye Young Lee, Inje University College of Medicine

PROGRAM DETAILS

PSVT 1

10:15-11:45 | Room 4 ENG

Chairs Choong Hwan Kwak, Gyeongsang National University College of Medicine
Jung Hoon Sung, CHA University

Speakers **Localization and Ablation of Focal Atrial Tachycardia**

Jin-Kyu Park, Hanyang University College of Medicine

Functional Anatomy of AV Node

Il-Young Oh, Seoul National University College of Medicine

RFCA in Ebstein's Anomaly

Sung-Hwan Kim, College of Medicine, The Catholic University of Korea

How to Ablate AVRT and WPW Syndrome

Jung Myung Lee, School of Medicine, Kyung Hee University

Atrial Fibrillation 7

10:15-11:45 | Room 5 ENG

Chairs Dae Kyeong Kim, Inje University College of Medicine
Sang-Jin Han, College of Medicine, Hallym University

Speakers **Recent Updates of Treatment with Antiarrhythmic Drugs in AF**

So-Ryoung Lee, Seoul National University College of Medicine

Circulating Nucleotides: Their Contribution to the Pathogenesis of Atrial Fibrillation and the Possibility of Biomarkers

Tetsuo Sasano, Tokyo Medical and Dental University, Japan

PFO Closure for Stroke Prevention: An Excellent Guard or a Trouble Maker?

Eun Sun Jin, School of Medicine, Kyung Hee University

LAA Occlusion (New Imaging Techniques & Update)

Seung Yong Shin, Chung Ang University College of Medicine

PROGRAM DETAILS

Arrhythmia Review Course 3: Narrow QRS Tachycardia

10:15-11:00 | Room 6 

Program Director Myung-Yong Lee, Dankook University College of Medicine

Speakers Won-Seok Choe, Sejong General Hospital
Jin Kyung Hwang, Veterans Health Service Medical Center
Euijae Lee, Sejong General Hospital

Arrhythmia Review Course 4: Wide QRS Tachycardia

11:00-11:45 | Room 6 

Program Director Hong Euy Lim, College of Medicine, Hallym University

Speakers Sung Ho Lee, School of Medicine, Sungkyunkwan University
Min Soo Cho, University of Ulsan College of Medicine
Sung Soo Kim, Chosun University College of Medicine

PROGRAM DETAILS

Scientific Session (DaiichiSankyo-Daewoong)

12:00-13:00 | Room 1 

Chairs Moon Hyoung Lee, Yonsei University College of Medicine
Kee-Joon Choi, University of Ulsan College of Medicine

Speakers **Optimal Anticoagulation Strategy in Elderly AF Patients**
Hee Tae Yu, Yonsei University College of Medicine

Hot Issues in NOACs: Efficacy and Safety of Low Dose NOACs
So-Ryoung Lee, Seoul National University College of Medicine

Scientific Session (Chong Kun Dang)

12:00-13:00 | Room 2 

Chair Seongwook Han, Keimyung University School of Medicine

Speakers **Wearable Devices in Cardiology: Reality, Not a Dream**
Eue Keun Choi, Seoul National University College of Medicine

Recent Update in Oral Anticoagulation Therapy & SPIRE Studies
Jong-Il Choi, Korea University College of Medicine

Anti-Arrhythmic Effect of Carvedilol on Suppressing PVC/VT from OT
Jongmin Hwang, Keimyung University School of Medicine

PROGRAM DETAILS

2020 개원의 및 전공의 NOAC 연수교육 2

13:00-14:00 | 개원의 연수교육 KOR

Chairs Byung-Chun Jung, Daegu Fatima Hospital
Dae Kyeong Kim, Inje University College of Medicine

Speakers **시술 혹은 수술 전후에 따른 항응고제의 용법 및 주의사항**
Young Soo Lee, Daegu Catholic University College of Medicine

환자의 특성에 따른 항응고제 사용의 주의사항
Tae-Hoon Kim, Yonsei University College of Medicine

Ventricular Tachycardia 3

13:15-14:45 | Room 1 ENG

Chairs Young-Hoon Kim, Korea University College of Medicine
Eun-Jung Bae, Seoul National University College of Medicine

Speakers **My Favourite Approach for Haemodynamically Unstable Ischaemic and Non-ischaemic Ventricular Tachycardia Ablation**
Kyoko Soejima, Kyorin University, Japan

Ablation of Ventricular Fibrillation Associated with Brugada Syndrome
Shih-Ann Chen, Taipei Veterans General Hospital, Taiwan

Iatrogenic Aortic Regurgitation after Radiofrequency Ablation of Idiopathic Ventricular Arrhythmias Originating from the Aortic Valvular Region
Akihiko Nogami, University of Tsukuba, Japan

PROGRAM DETAILS

DAY 2, Nov 21

TTS 3: Therapeutic Innovations in Arrhythmia

13:15-14:45 | Room 2 ENG

Chairs Boyoung Joung, Yonsei University College of Medicine
Hsuan-Ming Tsao, National Yang Ming University Hospital, Taiwan

Speakers **Acute and Long-Term Results of Bipolar Radiofrequency Catheter Ablation of Refractory Ventricular Arrhythmias of Deep Intramural Origin**

Miyako Igarashi, University of Tsukuba, Japan

Noninvasive Cardiac Radioablation for Ventricular Tachycardia

Myung-Jin Cha, Seoul National University College of Medicine

RFCA and Ischemic Stroke in AF Patients

Yun Gi Kim, Korea University College of Medicine

Atrial Fibrillation 8

13:15-14:45 | Room 3 ENG

Chair Seongwook Han, Keimyung University School of Medicine

Speakers **Cardiac Image (Cardiac MRI) and Arrhythmia**

Junbeom Park, Ewha Womans University School of Medicine

Device-Detected AF and Its Proper Management for Stroke Prevention

Kwang-No Lee, Ajou University School of Medicine

Clinical Outcome after Cryoballoon AF Ablation

Young Keun On, School of Medicine, Sungkyunkwan University

The Endpoint of Catheter Ablation for Persistent Atrial Fibrillation

Hyoung-Seob Park, Keimyung University School of Medicine

New Technologies for AF Ablation: Energy Sources and Delivery Strategies

Eue Keun Choi, Seoul National University College of Medicine

PROGRAM DETAILS

Smart Health Care & AI 2

13:15-14:45 | Room 4 ENG

Chairs Jin-Seok Kim, Korea University College of Medicine
Yae Min Park, Gachon University School of Medicine

Speakers **AI-ECG Interpretation**

Il-Young Oh, Seoul National University College of Medicine

The Usefulness of Brain Imaging in Cryptogenic Stroke Adjunct to Machine Learning

Dae In Lee, Chungbuk National University College of Medicine

Mobile Web Based ECG Reading Platform by Collective Intelligence

Yoo Ri Kim, Dongguk University School of Medicine

Continuous Home-Based Monitoring with Mobile Health Devices for AF Detection

Chi Keong Ching, National Heart Centre Singapore, Singapore

Clinical Implication of TWA/HRT/fQRS/QTc Dispersion

Jae-Jin Kwak, Inje University College of Medicine

CIED 3

13:15-14:45 | Room 5 ENG

Chairs Dong-Gu Shin, Yeungnam University College of Medicine
Gyo-Seung Hwang, Ajou University School of Medicine

Speakers **Predictors of CRT Responders (ECG, Echocardiogram, MRI)**

Lae-Young Jung, Chonbuk National University Medical School

Should DFT Testing be Required in S-ICD?

Hee Tae Yu, Yonsei University College of Medicine

Management of Complication of CIED Implantation; Based on the New Guidelines

Young Soo Lee, Daegu Catholic University College of Medicine

Lead Extraction Using TightRail™ –Indications & Real Cases-

Seung-Jung Park, School of Medicine, Sungkyunkwan University

How and Where to Implant LV Lead for CRT?

Jae-Sun Uhm, Yonsei University College of Medicine

PROGRAM DETAILS

SCD 3

13:15-14:45 | Room 6 ENG

Chairs Jin-Bae Kim, School of Medicine, Kyung Hee University
Tae-Seok Kim, College of Medicine, The Catholic University of Korea

Speakers **Telecommunicator CPR**
Yih Yng Ng, Tan Tock Seng Hospital, Singapore

The Risk of SCD in Athlete
Jin-Bae Kim, School of Medicine, Kyung Hee University

**Medical Therapy for SCD Prevention: Focusing on ARNI
(Recent ACC/ESC Consensus Update)**
Woo-Hyun Lim, SMG-SNU Boramae Medical Center

**The Application of Noninvasive Signal-Averaged Electrocardiogram Analysis in
Patients with Arrhythmogenic Right Ventricular Cardiomyopathy**
Chin-Yu Lin, Taipei Veterans General Hospital, Taiwan

Risk Stratification & Treatment for J Wave Syndrome
Namsik Yoon, Chonnam National University Medical School

PSVT 2

15:00-16:30 | Room 1 ENG

Chairs Eun-Jung Bae, Seoul National University College of Medicine
Man Young Lee, College of Medicine, The Catholic University of Korea

Speakers **Ablation of Atypical Flutters**
Kelvin Chua, National Heart Centre Singapore, Singapore
**Atypical AVNRT Using Variants of Slow Pathway Extending to the Right Atrial
Free Wall**

Yoshiaki Kaneko, Gunma University Graduate School of Medicine, Japan

How to Differentiate Ventricular or Supraventricular Tachycardia?
Sung-Won Jang, College of Medicine, The Catholic University of Korea

PROGRAM DETAILS

TTS 4: Evolution of Treatment: Insight into Ablation and Device

15:00-16:30 | Room 2 ENG

Chairs Hui-Nam Pak, Yonsei University College of Medicine
Koichi Inoue, Sakurabashi Watanabe Hospital, Japan

Speakers **Electrical Isolation of the Marshall Bundle by Radiofrequency Catheter Ablation in Patients with Atrial Fibrillation**

Seiji Takatsuki, Keio University School of Medicine, Japan

Novel Algorithm Facilitate Catheter Ablation of Atypical Flutter

Cheng-Hung Li, Taichung Veterans General Hospital, Taiwan

Virtual Computer Simulation Modeling for Cardiac Resynchronization Therapy in Patients with Heart Failure

Jae-Sun Uhm, Yonsei University College of Medicine

TTS 2020: Closing Remarks

Closing Remarks Young-Hoon Kim, Korea University College of Medicine
Akihiko Nogami, University of Tsukuba, Japan
Shih-Ann Chen, Taipei Veterans General Hospital, Taiwan

Atrial Fibrillation 9

15:00-16:30 | Room 3 ENG

Chair Jin-Seok Kim, Korea University College of Medicine

Speakers **The RFCA Outcomes of Redo Cases of AF Ablation: Differences between AF and AT/AFL**

Hee Tae Yu, Yonsei University College of Medicine

Anticoagulation Strategy after PCI in AF Patients

YouMi Hwang, College of Medicine, The Catholic University of Korea

Anticoagulation Strategy after AF Ablation

June Namgung, Inje University College of Medicine

The Implications of Catheter Ablation for Atrial Flutter in Preventing Stroke Risk: A Nationwide Population-Based Cohort Study

Yung-Lung Chen, Kaohsiung Chang Gung Memorial Hospital, Taiwan

Air Pollution and Arrhythmia

In-Soo Kim, Yonsei University College of Medicine

PROGRAM DETAILS

Noninvasive

15:00-16:30 | Room 4 KOR

Chairs Myung Chul Hyun, Kyungpook National University School of Medicine
Byung-Chun Jung, Daegu Fatima Hospital

Speakers **Update of 2020 Syncope**

Dong-Hyeok Kim, Ewha Womans University School of Medicine

Efficacy of Tilt Training for Recurrent Syncope

Kwang Jin Chun, Kangwon National University School of Medicine

HRT & TWA for Predicting CV Events in Patients with HF (K-REDEFINE Study)

June Soo Kim, School of Medicine, Sungkyunkwan University

Prediction of Arrhythmic Risk Using Exercise/Holter ECG Data

Young Soo Lee, Daegu Catholic University College of Medicine

AF Screening Update

Nam Ho Kim, Wonkwang University School of Medicine

SCD 4

15:00-16:30 | Room 5 ENG

Chairs Dong Jin Oh, College of Medicine, Hallym University
Yongkeun Cho, Kyungpook National University School of Medicine

Speakers **ICD Implantation in Children**

Naokata Sumitomo, Saitama Medical University International Medical Center, Japan

Autonomic Modulation and Analysis for Sudden Cardiac Death

Wei-Chung Tsai, Kaohsiung Medical University, Taiwan

COVID-19 and Sudden Cardiac Death

Young Choi, College of Medicine, The Catholic University of Korea

COVID-19 and Arrhythmia

Ju Youn Kim, College of Medicine, The Catholic University of Korea

PROGRAM DETAILS

EKG Educational Course

15:00-16:30 | Room 6 

Chairs Sang-Jin Han, College of Medicine, Hallym University
Dae Hyeok Kim, Inha University School of Medicine

Speakers **AV Block and Intraventricular Conduction Defects**
Kyeongmin Byeon, Seoul Medical Center
ECG Interpretation of Patients with CIED
Sang-Jin Han, College of Medicine, Hallym University
Differential Diagnosis of Narrow QRS Tachycardia
Sung Soo Kim, Chosun University College of Medicine



LEARNING CENTER

Nov 20 (Fri)

SANOFI

RCTs and Real-World Evidence of MULTAQ: 10 Years of Experiences

Eue Keun Choi

09:45-10:15

Johnson & Johnson Medical Korea

Systematic Approach to Persistent Atrial Fibrillation

Matthew Hyman

11:30-12:00

SAMJIN PHARM

Wearable ECG Monitoring Analysis Solution - S-PATCH CARDIO

12:45-13:15

Medtronic Korea Ltd.

**1. The Need for Devices that Detect, Reduce and Respond to AF
2. The Future is Here: Leadless Pacemaker, from Indications to Clinical Results**

TBD

14:30-15:00

Nov 21 (Sat)

BORYUNG Pharmaceutical

Outcomes after Use of Low-Dose NOAC in Patients with AF

So-Ryoung Lee

09:45-10:15

ABBOTT

Ice Utilization in RA Cases

Mansour Razminia

11:30-12:00

Bayer

TBD

TBD

12:45-13:15

Pfizer Korea / BMS Korea

Choosing the Right OAC at the Right Dose for the Right Patient

John Eikelboom

14:30-15:00

MISISON

**심장의 건강한 리듬을 지키기 위해
끊임없이 도전하고 헌신한다**



대한부정맥학회
Korean Heart Rhythm Society

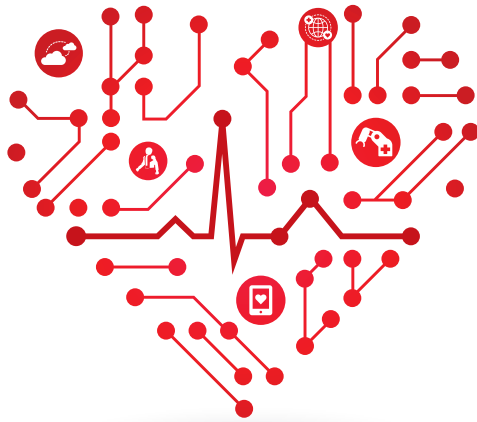


VISION

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



대한부정맥학회
Korean Heart Rhythm Society



MEMO





Korean Heart Rhythm Society Secretariat

(04323) 1604, Block A, 372, Hangang-daero, Yongsan-gu, Seoul

T. +82-2-318-5416 **F.** +82-2-318-5417

E. khrs@k-hrs.org **H.** <http://k-hrs.org/>