KHRS 2020 - VIRTUAL

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

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



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
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Audit Committee Chair	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			
	Joseph YS Chan, The Chinese University of Hong Kong			
Hong Kong	Ngai-Yin Chan, Princess Margaret Hospital			
	Hung-Fat Tse, The University of Hong Kong			
Indonesia	Yoga Yuniadi, University of Indonesia			
	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			
Japan	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 *			
	Chi Keong Ching, National Heart Centre Singapore			
Singapore	Kelvin Chua, National Heart Centre Singapore			
	Yih Yng Ng, Tan Tock Seng Hospital			
	1			

	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	
T •	Yu-Feng Hu, Taipei Veterans General Hospital *	
Taiwan	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	
	Chun Hwang, Revere Health	
United States	Warren Jackman, OU Medical Center	
	Sung Woo Lee, Georgetown University	

* TTS Faculty Member

VIRTUAL SITE INFORMATION



= 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



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 & Al 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

PROGRAM AT A GLANCE

Room 5	Room 6	개원의 연수교육	LEARNING Center	ABST	RACT
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		
				E- ORAL	E- POSTER
		2020 개원의 및 전공의	SAMJIN PHARM 12:45-13:15		
Basic	EGM Tracing 1	NOAC 연수교육 1 13:00-14:00			
			Medtronic Korea Ltd. 14:30-15:00		
YIA Competition	EGM Tracing 2				

DAY 2 NOV 21 (Sat) **LIVE SESSION** Time / Room Room 1 Room 4 Room 2 Room 3 **Atrial Fibrillation 4 Atrial Fibrillation 5** 08:30-10:00 TTS 1 CIED & VT Break 10:15-11:45 SCD 2 TTS 2 **Atrial Fibrillation 6** PSVT1 Break **Scientific Session Scientific Session** 12:00-13:00 (DaiichiSankyo (Chong Kun Dang) -Daewoong) Break Ventricular Smart TTS 3 **Atrial Fibrillation 8** 13:15-14:45 Health Care & AI 2 Tachycardia 3 Break 15:00-16:30 **Atrial Fibrillation 9** Noninvasive PSVT 2 TTS₄ Break **General Assembly** 16:45 of KHRS 2020

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PROGRAM AT A GLANCE

		개원의 연수교육	LEARNING Center	ABST	RACT
Room 5	Room 6	6744	ULNILN		
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		
			11.50 12.00		
				E-	E-
				ORAL	POSTER
			_		
			Bayer 12:45-13:15		
		2020 개원의 및 전공의	12.43 13.13		
		NOAC 연수교육 2 13:00-14:00			
CIED 3	SCD 3		Pfizer Korea / BMS Korea 14:30-15:00		
			11.00 10.00		
SCD 4	EKG Educational Course				



KHRS 2020 PROGRAM DETAILS

NOV 20 (Fri) NOV 21 (Sat)



Accessory	y Pathway 08:30-10:00 Room 1 ENG		
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		
and Signa	al Data Analysis 08:30-10:00 Room 3 ENG		
Chair	June Soo Kim, School of Medicine, Sungkyunkwan University		
SpeakersBasic Concept of Artificial Intelligence (AI) Hyeonseung Im, Kangwon National UniversityClinical Research in Medical Field Junbeom Park, Ewha Womans University School of MedicineVital 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			
ranets	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		





What's New About the Management of AF in 2020

08:30-10:00 | Room 6 ENG

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

CI	Ε	D	1

10:15-11:45 | Room 1 ENG

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

Clinical Application of Wearable Devices

10:15-11:45 | Room 3 ENG

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 & Al 1



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

	Pediatri	c & 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

Scientific Session (Pfizer Korea / BMS Korea)

12:00-13:00 | Room 1 ENG

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 ENG

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

Scientific Session (ABBOTT): Arrhythmia Management Session : Breakthrough Technologies and Approaches



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 🚾

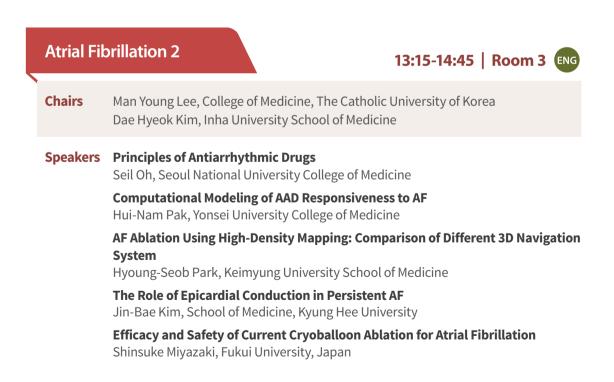
Chairs Byung-Chun Jung, Daegu Fatima Hospital Dae Kyeong Kim, Inje University College of Medicine

Speakers심방세동 환자에서 뇌졸중 예방을 위한 항응고 치료Namsik Yoon, Chonnam National University Medical School

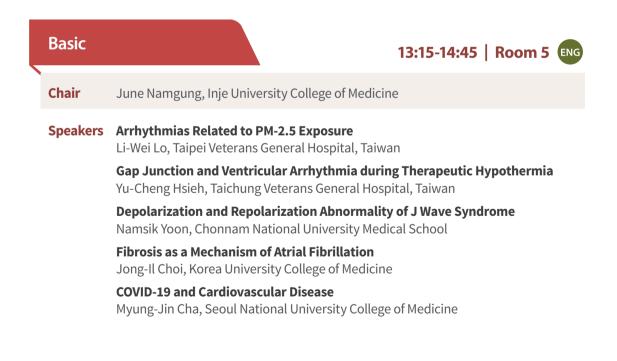
일반적인 항응고제의 제형 및 특성

Dongmin Kim, Dankook University College of Medicine





Policy &	New Technology	13:15-14:45 Room 4 KOR
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 G	Graduate School of Medicine
	Remote Monitoring of CIED in Korea Sang Weon Park, Sejong General Hospital	



EGM Tr	acing 1	13:15-14:45 Room 6 ENG
Chair	Seongwook Han, Keimyung University Scho	ool of Medicine
Speaker	Case 1-4 Chun Hwang, Revere Health, United States	





MR Education



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

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

SpeakersNew 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

Atrial Fil	orillatio	on 4 08:30-10:	:00 Room 1 ENG
Chairs	0	eog Oh, College of Medicine, The Catholic University of m Pak, Yonsei University College of Medicine	Korea
Speakers		Use Anticoagulants in Cases of Absence of LAA eog Oh, College of Medicine, The Catholic University of	Korea
		ibrillation Ablation with Balloon Technologies, Cryo E Yoo Lee, Georgetown University, United States	Balloon vs RF Balloon
Leadless Pacemaker Sung Woo Lee, Georgetown University, United States			
		xpression Profiles in the Left Atria of Patients with Valv sin Yeh, Chang-Gung Memorial Hospital, Taiwan	ular Atrial Fibrillation
TTS 202	0: Welco	ome Address/Opening Remarks	
Welcome Address		Yong Seog Oh, College of Medicine, The Catholic Uni	versity of Korea
Opening F	Remarks	Young-Hoon Kim, Korea University College of Medici Akihiko Nogami, University of Tsukuba, Japan Shih-Ann Chen, Taipei Veterans General Hospital, Ta	

TTS 1: Advancement in Brugada Syndrome

08:30-10:00 | Room 2 ENG

ChairsGi-Byoung Nam, University of Ulsan College of Medicine
Akiko Ueda, Kyorin University School of Medicine, JapanSpeakersNovel 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





(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
9	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 SICD 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
	۵rrhythr	mia Review Course 1:
		rpretation of Arrhythmia 08:30-09:15 Room 6 Kor
	Program Director	Man Young Lee, College of Medicine, The Catholic University of Korea

SpeakersJi Hyun Lee, Seoul National University College of MedicineYoung Jun Park, Yonsei University College of MedicineHancheol Lee, National Health Insurance Service Ilsan Hospital

Arrhythmia Review Course 2: Basic Bradycardia and Pacemaker

09:15-10:00 | Room 6 KOR

Program 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



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

10:15-11:45 | Room 2 ENG

ChairsSeil Oh, Seoul National University College of MedicineMing-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





Arrhythmia Review Course 3: Narrow QRS Tachycardia

10:15-11:00 | Room 6 KOR

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



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

SpeakersSung Ho Lee, School of Medicine, Sungkyunkwan UniversityMin Soo Cho, University of Ulsan College of MedicineSung Soo Kim, Chosun University College of Medicine

Scientific Session (DaiichiSankyo-Daewoong)

12:00-13:00 | Room 1 ENG

ChairsMoon Hyoung Lee, Yonsei University College of MedicineKee-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)



ChairSeongwook Han, Keimyung University School of MedicineSpeakersWearable Devices in Cardiology: Reality, Not a Dream
Eue Keun Choi, Seoul National University College of MedicineRecent Update in Oral Anticoagulation Therapy & SPIRE Studies
Jong-Il Choi, Korea University College of MedicineAnti-Arrhythmic Effect of Carvedilol on Suppressing PVC/VT from OT
Jongmin Hwang, Keimyung University School of Medicine

2020 개원의 및 전공의 NOAC 연수교육 2

13:00-14:00 | 개원의 연수교육 🚾

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

Speakers시술 혹은 수술 전후에 따른 항응고제의 용법 및 주의사항Young 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

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





	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

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 CPRYih Yng Ng, Tan Tock Seng Hospital, SingaporeThe Risk of SCD in AthleteJin-Bae Kim, School of Medicine, Kyung Hee UniversityMedical Therapy for SCD Prevention: Focusing on ARNI (Recent ACC/ESC Consensus Update)Woo-Hyun Lim, SMG-SNU Boramae Medical CenterThe Application of Noninvasive Signal-Averaged Electrocardiogram Analysis in Patients with Arrhythmogenic Right Ventricular Cardiomyopathy Chin-Yu Lin, Taipei Veterans General Hospital, TaiwanRisk Stratification & Treatment for J Wave Syndrome
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

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

15:00-16:30 | Room 2 ENG

- ChairsHui-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 Fil	orillation 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

Noninva	nsive 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



EKG Edu	cational Course	15:00-16:30 Room 6 KOR
Chairs	0 , 0	of Medicine, Hallym University niversity School of Medicine
Speakers	Kyeongmin Byeon, Seou ECG Interpretation of P Sang-Jin Han, College of Differential Diagnosis o	



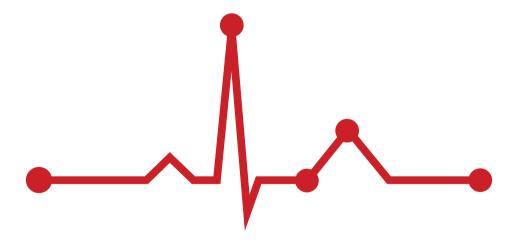
LEARNING CENTER

	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	1
Systematic Approach to Persistent Atrial Fibrillation Matthew Hyman	11:30-12:00
SAMJIN PHARM	12.45 12.11
Wearable ECG Monitoring Analysis Solution - S-PATCH CARDIO	12:45-13:1
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	14:30-15:0
	Nov 21 (Sat)
BORYUNG Pharmaceutical	1
Outcomes after Use of Low-Dose NOAC in Patients with AF	09:45-10:1
	09:45-10:1
Outcomes after Use of Low-Dose NOAC in Patients with AF So-Ryoung Lee ABBOTT	
Outcomes after Use of Low-Dose NOAC in Patients with AF So-Ryoung Lee	09:45-10:1
Outcomes after Use of Low-Dose NOAC in Patients with AF So-Ryoung Lee ABBOTT Ice Utilization in RA Cases Mansour Razminia	
Outcomes after Use of Low-Dose NOAC in Patients with AF So-Ryoung Lee ABBOTT Ice Utilization in RA Cases Mansour Razminia Bayer	11:30-12:0
Outcomes after Use of Low-Dose NOAC in Patients with AF So-Ryoung Lee ABBOTT Ice Utilization in RA Cases Mansour Razminia Bayer	11:30-12:0
Outcomes after Use of Low-Dose NOAC in Patients with AF So-Ryoung Lee ABBOTT Ice Utilization in RA Cases Mansour Razminia Bayer TBD	



심장의 건강한 리듬을 지키기 위해 끊임없이 도전하고 헌신한다





VISION

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



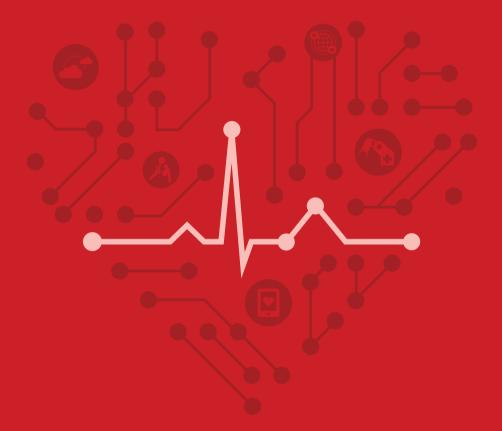


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