

The 63rd Annual Scientific Meeting of The Korean Society of Cardiology

대한심장학회 제63차 추계학술대회

The 63rd Annual Scientific Meeting of The Korean Society of Cardiology

10. 18 Fri. – **20** Sun.
Grand Walkerhill Seoul, Korea

Diamond



Bayer



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HOMEPAGE



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References 1. Chatterjee SS. J Cardiovasc Pharmacol. 1986;8(11):74-7. 2. Smith C, et al. Cardiovasc Drugs Ther. 1999;13(2):123-126. 3. Cruickshank JM. Int J Cardiol. 2007;120:10-27.

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2020 춘계심혈관 통합학술대회

2020 Annual Spring Scientific Conference of the KSC with Affiliated Cardiac Societies

대한심장학회 | 대한부정맥학회 | 대한소아심장학회 | 대한심부전학회 | 대한심혈관중재학회 |
순환기의공학회 | 심장대사증후군학회 | 한국심초음파학회 | 한국지질·동맥경화학회

4.17 (Fri.) - 18 (Sat.)
HICO, Gyeongju, Korea



The 64th Annual Scientific Meeting of The Korean Society of Cardiology

2020.10.16 Fri. - **18** Sun.
Grand Walkerhill Seoul, Korea

Operating Hours

	Open - Close	Venue
Registration Desk	07:30 - 17:00	Grand Hall Lobby (B1)
Preview Room * 발표자료는 발표 2시간 전까지 접수하시기 바랍니다.	07:30 - 17:00	Ida Hall (B1)
Faculty Lounge	07:30 - 17:00	Amber Hall (1F)
Exhibition	09:00 - 17:00	Theatre Lobby (B1) Grand Hall (B1) Vista Hall (B2)
출결등록 기계	08:40 - 17:10	Guide Map 참조
E-Poster	09:00 - 12:00 14:00 - 17:00	Grand Hall (B1) Vista Hall (B2)



대한심장학회
제63차 추계학술대회

정기총회

2019. 10. 19(Sat.) 17:20
Theatre, Walkerhill



※ 각 분야 시상 및 경품 추첨이 있사오니 사오니 많은 참석 바랍니다.

Highlight Program

New Frontiers in Cardiology 1
Plenary Lecture in Future Medicine

Oct 18 (Fri.) 08:40 - 10:10 Theatre

- 1 Artificial Intelligence and Deep Learning to Detect Heart Failure
Achi Ludomirsky / NYU Hassenfeld Children's Hospital, USA
- 2 Artificial Intelligence as a Toolbox for Clinicians: AWS
Leo An / Amazon Web Services, Korea
- 3 Predicting Cardiovascular Events with Artificial Intelligence
Hyunho Park / VUNO Inc., Korea
- 4 Digital Transformation and Smart Healthcare in The 5G Era
Soon-Rae Mo / KT, Korea

New Frontiers in Cardiology 2
Plenary Lecture in Arrhythmia

Oct 19 (Sat.) 10:20 - 11:50 Theatre

- 1 Key Note Lecture: VT Ablation
Chun Hwang / Utah Valley Regional Medical Center, USA
- 2 AF Ablation
Julian Chun / Cardioangiologisches Centrum Bethanien, Germany
- 3 AF Screening – What's Here and What's New
Ben Freedman / University of Sydney, Australia
- 4 Transcriptional Regulation of Cardiac Conduction & Excitability
David Park / New York University, USA

18
Fri.

DAY 1
Program at a glance

	B1		1F		3F		4F			B1		B2	
	Theatre Main Arena	Grand 4	Walker 1	Walker 2	Cosmos	Calla	Art	Pine	Oak	Grand Hall		Vista Hall	
										Abstract / Case Zone 1	Abstract / Case Zone 2	Abstract / Case Zone 3	Abstract / Case Zone 4
08:40 - 10:10	Eng New Frontiers in Cardiology 1 Plenary Lecture in Future Medicine USA	Lipid 1 Lessons Learned from Recent CV Outcome Clinical Trials Using Cardiometabolic Drugs	Arrhythmia 1 ECG Review Course	Eng Myocardial Infarction 1 Joint Collaboration for Asian AMI Guideline JPN CHN HK	Essence Heart Failure 1 Essence of Recent HF Trials	Basic Research 1 Recent Updates in Basic Cardiovascular Research	Cardiometabolic Syndrome 1 Hot Topic in Cardiometabolic Syndrome 1	Eng Imaging 1 Multimodal Imaging Approach for Heart Failure UK		a CAD 1 1-8		a Hypertension 1 9-16	Eng a Arrhythmia 1 17-25
10:20 - 11:50	Cross Specialty: Nephrology & Cardiology What Nephrologists Want to Say to Cardiologists	Lipid 2 Overview and Deep-dive Discussion: Recent Lipid Guidelines	Eng Arrhythmia 2 AF Screening and Stroke Prevention AUS	Myocardial Infarction 2 Cardiogenic Shock: Are We Ready for Changing the Approach?	Heart Failure 2 Cardiac Critical Care - Case Based Approach	Basic Research 2 Tissue Engineering Technology Using Stem Cells for Cardiovascular Disease	Cardiometabolic Syndrome 2 Hot Topic in Cardiometabolic Syndrome 2	Imaging 2 Multimodal Imaging Approach for Structural Heart Disease Intervention		a Echocardiography 1 26-33	Eng a Intervention 1 34-40	Eng a Hypertension 2 41-48	Eng a Arrhythmia 2 49-57
12:00 - 12:40	Scientific Session [Bayer] The Bigger Picture in Stroke Risk Reduction and Anticoagulation		Diamond Session [Pfizer] Strategies to Optimize Management of CVD	Scientific Session [Samjin] Strategy for Prevention of Cardiovascular Event	Scientific Session [Boryung] Current Issues in the Management of Hypertension in Korea		Eng Healthcare Policy: Special Lecture [12:00 - 13:00] Comprehensive Cardiac Rehabilitation USA						E-Poster 1-83 [09:00 - 12:00] [14:00 - 17:00]
12:40 - 14:00		Moderated Poster Presentation	Grand Hall (B1) Moderated Poster Zone A Basic Research 1-5		Vista Hall (B2) Moderated Poster Zone C Vascular+Hypertension 16-22		Case Presentation		Grand Hall (B1) Abstract / Case Zone 1 Eng AMI & CAD 1 1-7		Vista Hall (B2) Abstract / Case Zone 3 Eng Pediatric Cardiology 16-23		Abstract / Case Zone 4 Eng Heart Failure 8-15
14:00 - 15:30	Eng Featured Clinical Research 1	Women Heart Disease 1 Exercise in Women	Myocardial Infarction 3 AMI Updates and Debates	Intervention 1 New Corner of Invasive Coronary Physiology in 2019	Smart Health 의료정보화와 심장질환 JPN	Eng JCSTM-KSC Joint Session: Basic Research Roadmap for Cardiac Regeneration	Echocardiography 1 Reviewing the Old and Learning the New in Heart Failure	Eng VNHATM-KSC Joint Session: CHD Past and Present in Congenital Heart Disease – Vietnam and Korea VN	a Imaging 1 58-65	a CAD 2 66-73	a Heart Failure 1 74-81		
15:40 - 17:10	Cross Specialty: Arrhythmia & Heart Failure 1. What You May Not Know... 2. The Good, The Bad, and The Weird	Women Heart Disease 2 Arrhythmia in Women	Eng Meet the Editor Why I Chose This Paper from Korea JPN USA	Essence Eng Intervention 2 The Interventional Cardiovascular Medicine Perspective: Insights, Innovation, and The Next Decade USA	Cardiac Pathology Cardiac Pathology Services and Education	Eng IHATM-KSC Joint Session: Echocardiography/Imaging Medicine Perspective: Insights, Innovation, and The Next Decade IDN	Essence Echocardiography 2 Valvular Heart Diseases	Eng a KCDCTM-KSC Joint Session Cardiovascular Disease Registry	Eng a Imaging 2 82-89	Eng a Echocardiography 2 90-97	Eng a Intervention 2 98-105	a Lipid 106-113	Eng a Arrhythmia 3 114-122

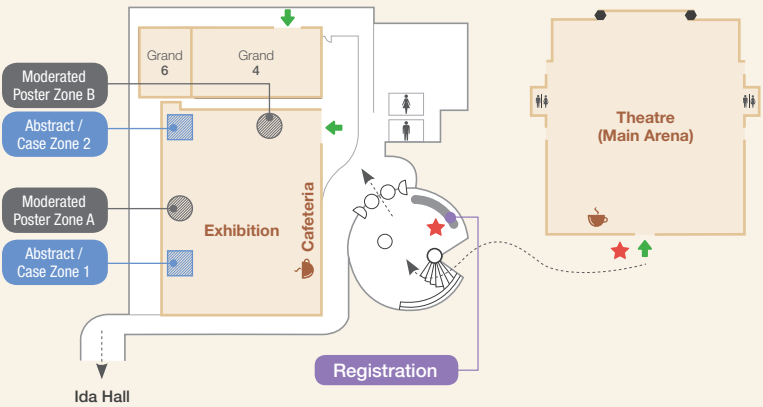
1) JCS: Japanese Circulation Society
2) VNHA: Vietnam National Heart Association
3) IHA: Indonesia Heart Association
4) KCDC: Korea Centers for Disease Control & Prevention

USA United States of America JPN Japan CHN China HK Hong Kong
UK United Kingdom AUS Australia VN Vietnam IDN Indonesia

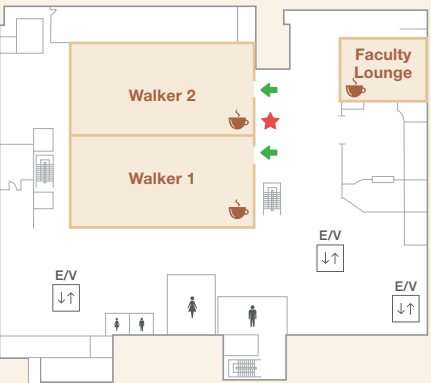
Guide Map

☕ COFFEE ★ 출결등록기계

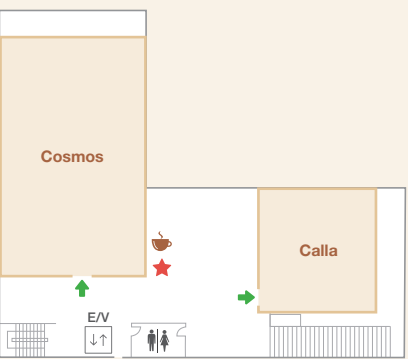
B1 Grand Hall



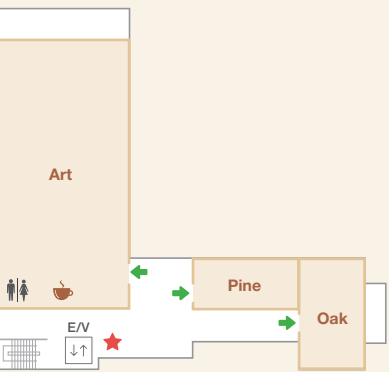
1F



3F



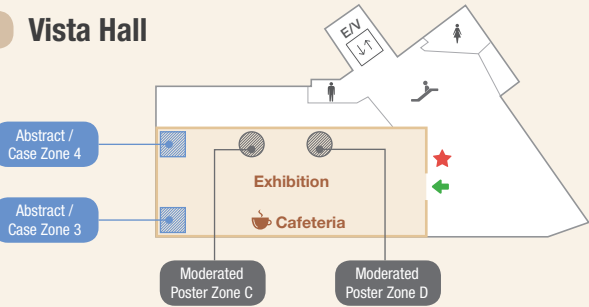
4F



B1 Ida Hall



B2 Vista Hall



DAY 2 Program at a glance

Special Lecture Eng English Session Abstract Session

	B1			1F		3F		4F			B1		B2		
	Theatre Main Arena	Grand 4	Grand 6	Walker 1	Walker 2	Cosmos	Calla	Art	Pine	Oak	Grand Hall		Vista Hall		
											Abstract / Case Zone 1	Abstract / Case Zone 2	Abstract / Case Zone 3	Abstract / Case Zone 4	
08:40 - 10:10	Video Session 1 Complex and High-risk Coronary Intervention (CHIP) in Real World Clinical Practices	Eng @ Young Investigator award Competition 1 1-6		Eng Arrhythmia 3 AF Summit USA GER	Cross Specialty: Cardiac Pathology & ACHD Pathologic Exploration of ACHD: Right-sided Congenital Heart Diseases	Eng @ Young Investigator award Competition 2 7-12	Vascular 1 Recent Update for Venous Disorder	Echocardiography 3 A Best Way to Detect Myocardial Ischemia and Viability	Cardiac Surgery 1 How to Improve Results of CABG	@ Pediatric Cardiology 1 123-130	@ Women Heart Disease 131-138	@ Heart Failure 2 139-146	Eng @ Basic Research 1 147-154		
10:20 - 11:50	Eng New Frontiers in Cardiology 2 Plenary Lecture in Arrhythmia USA GER AUS	Eng @ Young Investigator award Competition 3 13-18	대한민국 국회 보건복지위원회 위원장 김세연 의원 초청 간담회 고령화 사회 대비한 심뇌혈관질환 정책 수립	Cross Specialty: Intervention & Heart Failure Heart Failure and Cardiac Enzyme Elevation: Early Invasive VS. Conservative	Eng @ TSOC ¹⁾ -KSC Joint Session: Intervention TWN	Eng @ Young Investigator award Competition 4 19-24	Eng Vascular 2 Vascular Inflammation and Imaging USA	Echocardiography 4 Interesting Cases from Diverse Institutions	Cardiac Surgery 2 Current Status of HF Surgery in Korea	@ Pediatric Cardiology 2 155-162	@ CAD 3 163-170	Eng @ Heart Failure 3 171-178	@ Basic Research 2 179-186	Eng @ Arrhythmia 4 187-195	
12:00 - 12:40	Scientific Session [Pfizer] Advanced Management of Venous Thromboembolism and Hyperlipidemia	Scientific Session [Amgen] Implementation of PCSK9 Inhibitors in Practice		Diamond Session [Bayer] Tailored Protection for Your Cardiovascular Patients	Scientific Session [MSD] Protecting CVD in the Future	Scientific Session [Dong-A ST/Takeda] The New Strategy of BP Control for Uncontrolled Hypertensive Patients									E-Poster 1-83 [09:00 - 12:00] [14:00 - 17:00]
12:40 - 14:00	Moderated Poster Presentation	Grand Hall (B1)		Vista Hall (B2)		Case Presentation	Grand Hall (B1)		Vista Hall (B2)		Case Presentation	Grand Hall (B1)		Vista Hall (B2)	
		Moderated Poster Zone A	Moderated Poster Zone B	Moderated Poster Zone C	Moderated Poster Zone D		Abstract / Case Zone 1	Abstract / Case Zone 2	Abstract / Case Zone 3	Abstract / Case Zone 4		Abstract / Case Zone 1	Abstract / Case Zone 2	Abstract / Case Zone 3	Abstract / Case Zone 4
		Intervention 1 33-42	CAD 2 43-52	Pediatric Cardiology 53-58	Arrhythmia 1 59-68		Eng AMI & CAD 2 31-37	Eng Arrhythmia 1 38-44	Eng Echo & Imaging 1 45-49	Eng Intervention 2 50-56					
14:00 - 15:30	Video Session 2 Challenging Structural, Valvular, and Vascular Interventions	Nurse-Technician Session 1 CHIP Intervention Case Review		Arrhythmia 4 VT & PSVT Summit	Cross Specialty: Intervention & Diabetes Best Approach for CV Risk Reduction in Diabetes	Heart Failure 3 Do We Need Reclassification of HF? Time for Disruptive Innovation	Echocardiography 5 Role of Cardiac Imaging in the Risk Stratification	Eng Pediatric Cardiology 1 More than Shunt USA	BESCO ²⁾ 1 Biomedical Engineering Society for Circulation 1	Epidemiology How to Use National Health Insurance Data for CVD Epidemiology Study	@ CAD 4 196-203	@ Intervention 3 204-211			
15:40 - 17:10	Cross Specialty: Intervention & Arrhythmia Antithrombotic Strategy in Patients Undergone PCI with AF	Nurse-Technician Session 2 Cathlab Patient Care and Management		Geriatric Cardiology It Is Now to Start Geriatric Cardiology	Eng Featured Clinical Research 2	Eng Heart Failure 4 Heart Transplantation 2019 USA	Eng JCS ³⁾ -KSC Joint Session: Echocardiography Valvular Disease, We've Overlooked JPN	Pediatric Cardiology 2 What to Learn More for Fontan Physiology	BESCO ²⁾ 2 Biomedical Engineering Society for Circulation 2	Eng @ Epidemiology & Prevention 1 212-219	Eng @ CAD 5 220-227	@ Intervention 4 228-235	@ Vascular 236-241	Eng @ Arrhythmia 5 242-250	
17:20	총회														

1) TSOC: Taiwan Society of Circulation
2) BESCO: Biomedical Engineering Society for Circulation
3) JCS: Japanese Circulation Society

USA United States of America GER Germany AUS Australia TWN Taiwan JPN Japan

DAY 3 Program at a glance

Special Lecture Essence Essence Series Eng English Session Abstract Session

	B1		1F		3F		4F			B1		B2	
	Theatre Main Arena	Grand 4	Walker 1	Walker 2	Cosmos	Calla	Art	Pine	Oak	Grand Hall		Vista Hall	
										Abstract / Case Zone 1	Abstract / Case Zone 2	Abstract / Case Zone 3	Abstract / Case Zone 4
08:40 - 10:10	Cross Specialty: Echocardiography & Cardiac Surgery Management of Ischemic Mitral Regurgitation; Where We Stand?	Healthcare Policy 1 미세먼지, 심혈관질환에 미치는 영향 및 개선 대책	Eng Arrhythmia 5 Syncope and Sudden Cardiac Death JPN	Cross Specialty: Neurology & Intervention What We Know? What We Don't Know	Education Workshop 1: Intervention The Role of Interventional Therapy Non-Coronary Artery Disease	Cardio-Oncology 1 All About the Cardiotoxicity	Adult Congenital Heart Disease 1 Pulmonary Hypertension in Adult Congenital Heart Disease	Hypertension 1 Debate: Start with Single Pill Combination		Eng @ CAD 6 251-258	Eng @ Heart Failure 4 259-266	Eng @ Epidemiology & Prevention 2 267-274	Eng @ Arrhythmia 6 275-283
10:20 - 11:50	Eng New Frontiers in Cardiology 3 Plenary Lecture in Heart Failure USA	Healthcare Policy 2 심장재활과 2차 예방	Essence Arrhythmia 6 Current Practice and Future Perspective in Cardiac Arrhythmia	Intervention 3 My Secret Tips as an Interventional Cardiologist	Education Workshop 2: Echocardiography Echocardiography in Adult Congenital Heart Diseases	Cardio-Oncology 2 Collaboration of Cardiology and Hemato-Oncology	Adult Congenital Heart Disease 2 How Manage Cardiovascular Disease in Pregnant Women	Hypertension 2 How to Improve Hypertension Control		Eng @ CAD 7 284-291		@ Epidemiology & Prevention 3 292-299	Eng @ Arrhythmia 7 300-308
12:00 - 12:40	Scientific Session [Norvatis] Lastest Update for Heart Failure Treatment with ARNI		Scientific Session [Daewoong/ Daiichisankyo] Effective Statin Treatment Strategy in Korean Population		Scientific Session [Hanmi] New Insight on Intensive Treatment for Hypertension and Dyslipidemia Management							E-Poster 1-83 [09:00 - 12:00] [14:00 - 17:00]	
12:40 - 14:00	임상심장학 연수강좌 1 [12:30 - 13:50] 최신 가이드라인 리뷰		Moderated Poster Presentation	Grand Hall (B1)		Vista Hall (B2)		Case Presentation	Grand Hall (B1)		Vista Hall (B2)		
				Moderated Poster Zone A	Moderated Poster Zone B	Moderated Poster Zone C	Moderated Poster Zone D		Abstract / Case Zone 1	Abstract / Case Zone 2	Abstract / Case Zone 3	Abstract / Case Zone 4	
				Heart Failure 69-78	Intervention 2 79-88	Epidemiology & Prevention 89-94	Arrhythmia 2 95-104		-	Eng Arrhythmia 2 57-63	Eng Echo & Imaging 2 64-69	Eng Intervention 3 70-76	
14:00 - 15:30	Ethics Workshop [필수교육] 의사가 알아야 할 최신윤리	임상심장학 연수강좌 2 Hot Issues in 2019 - 부정맥	Cross Specialty: Acute Myocardial Infarction & Basic Research Myocardial Damage and Salvage Strategies	Intervention 4 Structural Heart Intervention: Who Are Appropriate Candidates?	Education Workshop 3: Arrhythmia Current Practice in Management of AF	Echocardiography 6 Role of Multimodality Imaging in Various Disease	Eng Pediatric Cardiology 3 Save the Aorta JPN	Healthcare Policy 3 신포괄수거제 관련	의료정보 세션 빅데이터를 임상에서 어떻게 활용할 것인가?	@ Cardio-Oncology 309-316	@ Intervention 5 317-324	@ 전공의 Awards Oral 1-8	
15:40 - 17:10		임상심장학 연수강좌 3 개원의가 알아야 할 최근 임상연구 리뷰	Arrhythmia 7 CIED Summit	Intervention 5 'How to' Issues in Antithrombotic Treatment	Education Workshop 4: Heart Failure Management of Acute Heart Failure	Echocardiography 7 Interesting Imaging Cases from Percutaneous Procedures	Eng Pediatric Cardiology 4 Inherited Cardiac Diseases and More USA	Healthcare Policy 4 공익적 임상연구 (대한심장학회 /심장학연구재단 미래정책연구소)		Eng @ CAD 8 325-332	@ Intervention 6 333-340	전공의 Awards Case 1-8	Eng @ Arrhythmia 8 341-349
USA United States of America JPN Japan													

Highlight Program

New Frontiers in Cardiology 3
Plenary Lecture in Heart Failure

Oct 20 (Sun.) 10:20 - 11:50 Theatre

- The Past, Present and Future of HF Medical Treatment
Barry Greenberg / University of California San Diego, USA
- The Past, Present and Future of CRT
Eugene S. Chung / The Christ Hospital, USA
- The Past, Present and Future of Heart Transplantation
Jon A. Kobashigawa / Cedars-Sinai, USA

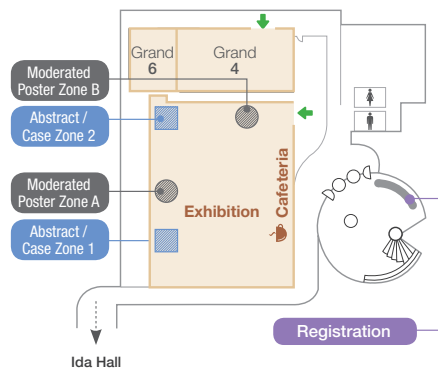
Essence Series

- Heart Failure 1 - Essence of Recent HF Trials
Oct. 18 (Fri.) 08:40 - 10:10, Cosmos
- Intervention 2 - The Interventional Cardiovascular Medicine Perspective: Insights, Inovation, and The Next Decade
Oct. 18 (Fri.) 15:40 - 17:10, Walker 2
- Echocardiography 2 - Valvular Heart Diseases
Oct. 18 (Fri.) 15:40 - 17:10, Art
- Arrhythmia 6 - Current Practice and Future Perspective in Cardiac Arrhythmia
Oct. 20 (Sun.) 10:20 - 11:50, Walker 1

Abstract/Case, Moderated Poster Location

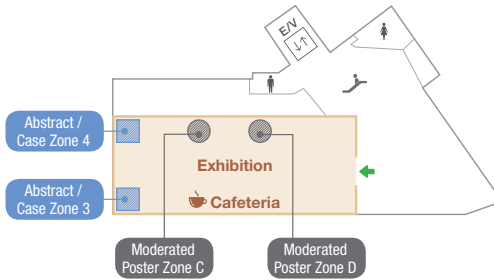
B1

Grand Hall



B2

Vista Hall



Case Presentation (12:40 - 14:00)		Abstract / Case Zone			
		Zone 1 (Grand Hall)	Zone 2 (Grand Hall)	Zone 3 (Vista Hall)	Zone 4 (Vista Hall)
Day / Accept No	18-Oct	1 ~ 7	24 ~ 30	16 ~ 23	8 ~ 15
	19-Oct	31 ~ 37	38 ~ 44	45 ~ 49	50 ~ 56
	20-Oct	-	57 ~ 63	64 ~ 69	70 ~ 76

Moderated Poster Presentation (12:40 - 14:00)		Moderated Poster Zone			
		Zone A (Grand Hall)	Zone B (Grand Hall)	Zone C (Vista Hall)	Zone D (Vista Hall)
Day / Accept No	18-Oct	1 ~ 5	6 ~ 15	16 ~ 22	23 ~ 32
	19-Oct	33 ~ 42	43 ~ 52	53 ~ 58	59 ~ 68
	20-Oct	69 ~ 78	79 ~ 88	89 ~ 94	95 ~ 104

Attendance Guide

Registration

구분	사전등록	현장등록
교수 및 개원의	100,000	120,000
전임의, 전공의, 기타	70,000	90,000
65세 이상	무료	무료
기타 무료	• 외국인 연수의 학생(학생증 제시) • 대한심장학회 회원(연회비 납부자에 한함)	

Lunch

Diamond Session & Scientific Session이 진행되는 회의장에서 식사 제공

Diamond Session

Pfizer Korea	10.18(Fri.) 12:00 - 12:40 Walker 1 (1F)
Bayer	10.19(Sat.) 12:00 - 12:40 Walker 1 (1F)

Scientific Session

10.18(Fri.)	Theatre (B1), Walker 2 (1F), Cosmos (3F)
10.19(Sat.)	Theatre (B1), Grand 4 (B1), Walker 2 (1F), Cosmos (3F)
10.20(Sun.)	Theatre (B1), Walker 1 (1F), Cosmos (3F)

Coffee & Concierge

Coffee	Grand Hall (B1) 07:30 - 17:00 Vista Hall (B2) 07:30 - 17:00
Concierge	Grand Hall Lobby (B1) 07:30 - 17:00

Shuttle Bus

워커힐 무료셔틀버스



- 배차간격 10분
 - 첫차 06:00 - 막차 23:20
 - 강변역 → 워커힐 : 약 15분 소요
 - 광나루역 → 워커힐 : 약 8분 소요
- *첫, 막차는 무료셔틀 승차장 출발 기준



5호선
광나루역에서
타는 방법

- STEP 01.** 광나루역 2번 출구 앞 횡단보도를 건너 왼쪽 방향 워커힐 무료 셔틀버스 정류장으로 이동해 주세요.
- STEP 02.** 워커힐 무료 셔틀버스 정류장에서 셔틀버스에 탑승해 주세요.
- STEP 03.** 약 8분후 워커힐 호텔에 도착합니다.
- *교통사정에 따라 소요시간이 달라질 수 있습니다.

2호선
강변역에서
타는 방법

- STEP 01.** 강변역 1번 출구로 나와 왼쪽 방향으로 걸어오세요.
- STEP 02.** 횡단보도를 두 번 건너 오른쪽 방향 구의공원 앞으로 이동해 주세요.
- STEP 03.** 워커힐 무료 셔틀버스 정류장에서 셔틀버스에 탑승해 주세요.
- STEP 04.** 약 15분 후 워커힐 호텔에 도착합니다.
- *교통사정에 따라 소요시간이 달라질 수 있습니다.

평점 등록 안내

1일 2회 명찰 바코드 인식(입, 퇴장 확인), 체류시간에 따라 평점 인정

평점 인정 기준

체류시간	평점 인정
- 2시간 이하	0 평점
2시간 초과 - 3시간 이하	3 평점
3시간 초과 - 4시간 이하	4 평점
4시간 초과 - 5시간 이하	5 평점
5시간 초과 -	6 평점

※ 입·퇴장확인: 출결등록기계에 명찰 바코드 인식

주의사항

- ① 퇴장 확인 시 화면에 안내되는 체류시간 및 인정되는 평점을 꼭 확인하시기 바랍니다.
- ② 1일 1회만 확인될 시 평점이 불인정되므로, 불이익을 받는 사례가 없도록 유의하시기 바랍니다.

구분	입장	퇴장	평점
Case 1	인식 O	인식 X	불인정
Case 2	인식 X	인식 O	불인정
Case 3	인식 O	인식 O	인정

평점안내

구분	평점안내
KSC 2019 등록자	의사협회 평점: 1일 최대 6점(3일간 최대 총18점) *필수교육: Ethics Workshop 10월 20일(일) 14:00 - 15:30, Theatre *10월 20(일) 필수교육 평점 1점을 포함하여 총 6점 인정 일반교육 참석자는 체류시간에 따라 최대 6점 인정(필수평점 제외) 내과전공의 외부학술회의(학술대회)평점: 2점(전공의에 한함)
분과 전문의 연수강좌 등록자	내과학회 연수교육 평점: 강좌 당일(10월 20일) 최대 6점

출결등록기계 운영시간

일시	시간
18일(금) - 20일(일)	08:40 - 17:10

*출결등록기계 위치는 Guide Map에서 확인하시기 바랍니다.

문자로 받으신 URL에 접속하시면 등록된 평점을 실시간으로 확인하실 수 있습니다.

Sponsors

Diamond



Platinum



Gold



Silver



Bronze



Invited Speakers



Achi Ludomirsky
NYU Hassenfeld Children's
Hospital, USA



Ario Soeryo Kuncoro
National Heart Center
Harapan Kita Hospital,
Indonesia



Barry Greenberg
University of California
San Diego, USA



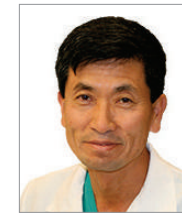
Ben Freedman
University of Sydney,
Australia



Bin Liu
Jilin University, China



Chris Wong
Heart Clinic Central,
Hong Kong



Chun Hwang
Utah Valley Regional Medical
Center, USA



Chun-Chi Chen
Chang Gung Memorial
Hospital, Taiwan



David Park
New York University, USA



Do Nguyen Tin
Children Hospital No1,
Vietnam



Eugene S. Chung
The Christ Hospital, USA



Hector M. Garcia-Garcia
Washington Hospital Center,
USA



Hiroto Utsunomiya
Hiroshima University
Hospital, Japan



Jon A. Kobashigawa
Cedars-Sinai, USA



Jong-Kook Lee
Osaka University, Japan



Juey-Jen Hwang
National Taiwan University,
Taiwan



Takeshi Aiba
National Cerebral and
Cardiovascular Center,
Japan



Tomoko Ishizu
Univeristy of Tsukuba, Japan



Tse-Min Lu
Taipei Veterans Hospital,
Taiwan



Vanessa Ferreira
University of Oxford, UK



Julian Chun
Cardioangiologisches
Centrum Bethanien,
Germany



Keiichi Fukuda
Keio University, Japan



Ki-Sung Kim
Kanagawa Children's
Medical Center, Japan



Masaki Izumo
St. Marianna University,
Japan



Nguyen Ly Thinh
Truong
National Children's Hospital,
Vietnam



Oktavia Lilyasari
National Heart Center
Harapan Kita Hospital,
Indonesia



Peter H. Brubaker
Wake Forest University, USA



Satoshi Yasuda
National Cerebral and
Cardiovascular Center,
Japan

18
Fri.**DAY 1**
KSC 2019 Program**Theatre**08:40 -
10:10**Chairpersons**
Kee Sik Kim,
Seung Woo Park**Panel**
Young Hak Kim,
Kyung Woo Park**Grand 4**08:40 -
10:10**Chairpersons**
김효수, 최동훈**Panel**
강지훈, 양한모,
우종신, 조익성,
홍순준**Eng New Frontiers in Cardiology 1****Plenary Lecture in Future Medicine**

- 08:40 - 09:00 **Artificial Intelligence and Deep Learning to Detect Heart Failure**
Achi Ludomirsky / NYU Hassenfeld Children's Hospital, USA
- 09:00 - 09:20 **Artificial Intelligence as a Toolbox for Clinicians: AWS**
Leo An / Amazon Web Services, Korea
- 09:20 - 09:40 **Predicting Cardiovascular Events with Artificial Intelligence**
Hyunho Park / VUNO Inc., Korea
- 09:40 - 10:00 **Digital Transformation and Smart Healthcare in The 5G Era**
Soon-Rae Mo / KT, Korea
- 10:00 - 10:10 **Discussion**

Lipid 1**Lessons Learned from Recent CV Outcome Clinical Trials Using Cardiometabolic Drugs**

- 08:40 - 09:00 **Incretin-based Therapeutics: DPP-4 Inhibitor and GLP-1 Agonists**
조영민 / 서울의대
- 09:00 - 09:20 **SGLT-2 Inhibitors**
이종영 / 성균관의대
- 09:20 - 09:40 **Lessons from Recent Outcome Trials with PCSK9 Inhibitors**
이상학 / 연세의대
- 09:40 - 10:00 **Statin (+ Ezetimibe or High Dose)**
김수중 / 경희의대
- 10:00 - 10:10 **Discussion**

Walker 108:40 -
10:10**Chairpersons**
이명용, 김남호,
장성원**Walker 2**08:40 -
10:10**Chairpersons**
Satoshi Yasuda,
Myung Ho Jeong

Panel
Min Chul Kim,
Youngkeun Ahn,
Young-Hoon Jeong,
Eun Ho Chu,
Joo-Yong Hahn

Arrhythmia 1**ECG Review Course**

- 08:40 - 10:10 **Case Presenter**
- | | |
|------------|------------|
| 이소령 / 서울의대 | 임우현 / 서울의대 |
| 정래영 / 전북의대 | 안진희 / 부산의대 |
| 이찬희 / 영남의대 | 이혜영 / 인제의대 |
| 김기훈 / 인제의대 | 이광노 / 고려의대 |

Eng Myocardial Infarction 1**Joint Collaboration for Asian AMI Guideline**

- 08:40 - 09:00 **Updated JCS Guideline on Diagnosis and Treatment of Acute Coronary Syndrome**
Satoshi Yasuda / National Cerebral and Cardiovascular, Japan
- 09:00 - 09:20 **CHIP PCI Supported by ECMO**
Bin Liu / Jilin Univ., China
- 09:20 - 09:40 **The Changing Landscape of Primary PCI in Hong Kong in Last 15 Years**
Chis Wong / Heart Clinic Central, Hong Kong
- 09:40 - 10:00 **Current Status of Korean AMI Guideline: Challenges and Future**
Kiyuk Chang / Catholic Univ., Korea
- 10:00 - 10:10 **Discussion**

Cosmos

08:40 -
10:10Chairpersons
유규형, 강석민Panel
박대균, 신미승,
안호석, 황경국,
황인창

Essence Heart Failure 1

Essence of Recent HF Trials

- 08:40 - 08:52 **COAPT**
박진주 / 서울의대
- 08:52 - 08:58 **Critique**
박성지 / 성균관대의대
- 08:58 - 09:06 **Discussion**
-
- 09:06 - 09:18 **MOMENTUM 3**
이선기 / 한림의대
- 09:18 - 09:24 **Critique**
조양현 / 성균관대의대
- 09:24 - 09:32 **Discussion**
-
- 09:32 - 09:44 **PARAGON-HF**
이주희 / 충북의대
- 09:44 - 09:50 **Critique**
조상호 / 한림의대
- 09:50 - 09:58 **Discussion**

Calla

08:40 -
10:10Chairpersons
한진, 권기환Panel
기해진, 민필기,
이찬주, 장우철,
조성우, 진선아

Basic Research 1

Recent Updates in Basic Cardiovascular Research

- 08:40 - 08:55 **Role of Forensic Science in Cardiology**
나주영 / 전남대학교병원
- 08:55 - 09:10 **Genome Editing Using CRISPR**
김형범 / 연세의대
- 09:10 - 09:25 **IntraVital Microscopy(IVM) for In Vivo Live Cell Imaging in Cardiovascular Diseases**
김필한 / KAIST
- 09:25 - 09:40 **Concepts of the Human Intestinal Microbiome Research in Cardiology**
황성순 / 연세의대
- 09:40 - 10:10 **Discussion**

*KAIST(Korea Advanced Institute of Science and Technology): 한국과학기술원

Art

08:40 -
10:10Chairpersons
김명아, 임수

Pine

08:40 -
10:10Chairpersons
Dong Ju Choi,
Jung Im JungPanel
Young Jin Kim,
Yong Hyun Park,
Hwan Seok Yong,
Jong-Chan Youn

Theatre

10:20 -
11:50Chairpersons
장양수, 최범순Panel
고은실, 김인철,
김효상, 엄재선,
윤종찬, 장태익,
조현재

Cardiometabolic Syndrome 1

Hot Topic in Cardiometabolic Syndrome 1

- 08:40 - 09:05 **Risk Prediction Models for Stroke and Myocardial Infarction in Patients with Type 2 Diabetes**
이승환 / 가톨릭의대
- 09:05 - 09:30 **CV Benefit of SGLT2 Inhibitor: Cardiometabolic Mechanisms Beyond Its Hemodynamic Effect**
진상만 / 성균관대의대
- 09:30 - 09:55 **Cardiometabolic Benefit of Physically Active Lifestyle**
강시혁 / 서울의대
- 09:55 - 10:10 **Discussion**

Eng Imaging 1

Multimodal Imaging Approach for Heart Failure

- 08:40 - 09:00 **Diagnostic Approach of Heart Failure**
Eui-Young Choi / Yonsei Univ., Korea
- 09:00 - 09:20 **New Techniques of ECHO for Diagnosis of HF**
Chi Young Shim / Yonsei Univ., Korea
- 09:20 - 09:40 **CMR as a Tool for Myocardial Tissue Characterization**
Vanessa Ferreira / Univ. of Oxford, UK
- 09:40 - 10:00 **Role of SPECT and PET for Diagnosis of HF**
Jin Chul Paeng / Seoul National Univ., Korea
- 10:00 - 10:10 **Discussion**

Cross Specialty: Nephrology & Cardiology

What Nephrologists Want to Say to Cardiologists

- 10:20 - 10:35 **Contrast Induced Nephropathy: Nephrologist's Case and Review**
고은실 / 가톨릭의대
- 10:35 - 10:43 **Cardiologist Designated Discussion**
조현재 / 서울의대
- 10:43 - 10:50 **Discussion**
- 10:50 - 11:05 **Cardiorenal Syndrome: Nephrologist's Case and Review**
장태익 / 국민건강보험 일산병원

- 11:05 - 11:13 **Cardiologist Designated Discussion**
김인철 / 계명대
- 11:13 - 11:20 **Discussion**
- 11:20 - 11:35 **Anticoagulation in CKD or ESRD: Cardiologist's Case & Review**
엄재선 / 연세대
- 11:35 - 11:43 **Nephrologist Designated Discussion**
김효상 / 울산대
- 11:43 - 11:50 **Discussion**

Grand 4

10:20 - 11:50

Chairpersons
김치정, 김상현

Panel
김학령, 서원우,
안효석, 조상호,
조준환

Lipid 2**Overview and Deep-dive Discussion: Recent Lipid Guidelines**

- 10:20 - 10:40 **Korean KSoLA Guideline**
정인경 / 경희대
- 10:40 - 11:00 **AHA/ACC Guideline on the Management of Blood Cholesterol**
김상현 / 서울대
- 11:00 - 11:20 **ESC/EAS Guideline**
이은정 / 성균관대
- 11:20 - 11:50 **Discussion**

Walker 1

10:20 - 11:50

Chairpersons
June Soo Kim,
Moon-Hyoung Lee,
Byung Chun Jung

Panel
Seung-Young Roh,
Seung Yong Shin,
Woo Seung Shin,
Sang Hee Lee

Eng Arrhythmia 2**AF Screening and Stroke Prevention**

- 10:20 - 10:28 **Global Burden of AF**
Pil-Sung Yang / Cha Univ., Korea
- 10:28 - 10:36 **Non Pharmacological Management of AF (Weight Loss, Hypertension Control, Etc)**
Yong Soo Baek / Inha Univ., Korea
- 10:36 - 10:44 **Pharmacological Management of AF (Rate and Rhythm Control)**
Ki Woon Kang / Eulji Univ., Korea
- 10:44 - 10:52 **Risk Stratification of Stroke and Thromboembolism in AF**
So-Ryoung Lee / Seoul National Univ., Korea

- 10:52 - 11:00 **Practical Use of NOAC in Specific Conditions: Eldery, Cancer, Etc**
Jin-Kyu Park / Hanyang Univ., Korea
- 11:00 - 11:08 **Practical Use of NOAC in Specific Conditions: MS, HCMP**
Ju Youn Kim / Catholic Univ., Korea
- 11:08 - 11:16 **How to Manage High Atrial Rate Events Detected in CIED**
Jin-Bae Kim / Kyung Hee Univ., Korea
- 11:16 - 11:31 **Rationale for AF Screening to Prevent Stroke**
Ben Freedman / Univ. of Sydney, Australia
- 11:31 - 11:50 **Discussion**

Walker 2

10:20 - 11:50

Chairpersons
권현철, 차광수

Panel
김동기, 김용,
김주한, 서준,
이장훈, 최준혁

Myocardial Infarction 2**Cardiogenic Shock: Are We Ready for Changing the Approach?**

- 10:20 - 10:40 **Cardiogenic Shock for 2019 and the Future: Hemodynamic vs. Hemometabolic Support**
박태규 / 성균관대
- 10:40 - 11:00 **Paradigms Shift in STEMI with Cardiogenic Shock: From "Door-to-balloon" to "Door-to-unload" Time**
이상연 / 충북대
- 11:00 - 11:20 **Multi-vessel PCI in STEMI and Cardiogenic Shock: What the Data Says?**
김민철 / 전남대
- 11:20 - 11:40 **Post-Cath Lab Management of Shock: Medical Therapy and Invasive Monitoring in CCU**
허정호 / 고신대
- 11:40 - 11:50 **Discussion**

Cosmos

Heart Failure 2

10:20 -
11:50

Cardiac Critical Care - Case Based Approach

- 10:20 - 10:35 **Coronary Care Unit to Cardiac Intensive Care Unit**
양정훈 / 성균관대의대
- 10:35 - 10:50 **Lung Ultrasound in the Critically Ill Patients (For the Cardiologists)**
하영록 / 분당제생병원
- 10:50 - 11:05 **Timing of Coronary Angiography after Cardiac Arrest**
장우진 / 이화의대
- 11:05 - 11:20 **Timing of Renal-Replacement Therapy in Patients with Acute Kidney Injury and HF**
이선우 / 을지의대
- 11:20 - 11:50 **Discussion**

Chairpersons
김영대, 김명아Panel
강지훈, 김민석,
김진진, 안철민,
이혜원, 최석원

Calla

Basic Research 2

10:20 -
11:50

Tissue Engineering Technology Using Stem Cells for Cardiovascular Disease

- 10:20 - 10:35 **3D Printed Complex Tissue Construct Using Stem Cell-laden Decellularized Extracellular Matrix Bioinks for Cardiac Repair**
박훈준 / 가톨릭의대
- 10:35 - 10:50 **Cardiac Direct Reprogramming of Fibroblasts for Cardiac Repair**
김병수 / 서울대학교
- 10:50 - 11:05 **Therapeutic Potential of Adipose-derived Stem Cell Sheet Using a Cell Sheet Technique for Myocardial Infarction**
김종호 / 고려의대
- 11:05 - 11:20 **Cardiac Patch Study Using Biocompatible Polymer and Cell-derived Extracellular Matrix**
박귀덕 / KIST
- 11:20 - 11:50 **Discussion**

*KIST(Korea Institute of Science and Technology): 한국과학기술연구원

Chairpersons
오구택, 유병수Panel
권상모, 박성하,
이만렬, 임병관,
허진

Art

10:20 -
11:50Chairpersons
이문규, 고광곤

Pine

10:20 -
11:50Chairpersons
이배영, 송재관Panel
강도윤, 김형관,
정정임, 최상일

Theatre

12:00 -
12:40Chairpersons
오용석, 이철환

Cardiometabolic Syndrome 2

Hot Topic in Cardiometabolic Syndrome 2

- 10:20 - 10:45 **Out-of-Office Blood Pressure Measurement**
손일석 / 경희의대
- 10:45 - 11:10 **Treating to New Targets: Triglyceride and Residual Risk of Major CV Events**
김원 / 경희의대
- 11:10 - 11:35 **Recent GLP-1 Receptor Agonist Cardiovascular Outcomes Trials: Heterogeneity and Similarities**
손장원 / 가톨릭의대
- 11:35 - 11:50 **Discussion**

Imaging 2

Multimodal Imaging Approach for Structural Heart Disease Intervention

- 10:20 - 10:40 **Trends of Structural Heart Disease Intervention**
안정민 / 울산의대
- 10:40 - 11:00 **Echocardiography for Interventionist**
홍그루 / 연세의대
- 11:00 - 11:20 **Cardiac CT for Interventionist**
서영주 / 연세의대
- 11:20 - 11:40 **Cardiac PET for Structural Heart Disease**
채선영 / 울산의대
- 11:40 - 11:50 **Discussion**

Scientific Session [Bayer]

The Bigger Picture in Stroke Risk Reduction and Anticoagulation

- 12:00 - 12:20 **Think about the Kidneys with Long Term Anticoagulation Treatment; What Do We Benefit from Preserving Renal Function in NVAf Patient?**
조민수 / 울산의대
- 12:20 - 12:40 **Consistent Safety Outcome of Low-dose Rivaroxaban in High Risk Patients with NVAfS**
이종영 / 성균관의대

Walker 1

12:00 -
12:40Chairpersons
정옥성, 김효수

Diamond Session [Pfizer]

Strategies to Optimize Management of CVD

- 12:00 - 12:20 **Entire Scope of Practice for Secondary Prevention Programs through Aggressive Lipid Lowering**
김중선 / 연세의대
- 12:20 - 12:40 **Updates on Real World Data of NOAC in Korea Focusing on Apixaban**
최익근 / 서울의대

Walker 2

12:00 -
12:40Chairpersons
윤영호, 정보영

Scientific Session [Samjin]

Strategy for Prevention of Cardiovascular Event

- 12:00 - 12:20 **The Strategy of High-intensity Cholesterol Lowering Therapy in Asian Population and the Importance of Early Intervention of LLT**
이관용 / 가톨릭의대
- 12:20 - 12:40 **The Update of Stroke Prevention in Atrial Fibrillation with Specific Condition**
김진배 / 경희의대

Cosmos

12:00 -
12:40Chairpersons
최동주, 하종원

Scientific Session [Boryung]

Current Issues in the Management of Hypertention in Korea

- 12:00 - 12:20 **Prognostic Value of BP Variability and Its Management with Fimasartan**
오재원 / 연세의대
- 12:20 - 12:40 **Anti-inflammatory Effect of Fimasartan in Reducing Risk of ASCVD**
이원재 / 서울의대

Art

12:00 -
13:00Chairperson
Kee Sik Kim

Eng Healthcare Policy - Special Lecture

Comprehensive Cardiac Rehabilitation

- 12:00 - 12:40 **Comprehensive Cardiac Rehabilitation: Opportunities and Challenges!**
Peter Brubaker / Wake Forest Univ., USA
- 12:40 - 13:00 **Discussion**

Theatre

14:00 -
15:30Chairpersons
Seung-Jung Park,
Boyoung JoungPanel
Jae Hyung Park,
Myeong Ho Yoon,
Jung Rae Cho,
Eue-Keun Choi,
Jong-Il Choi,
Seongwook Han

Eng Featured Clinical Research 1

- 14:00 - 14:09 **When Is It Appropriate to Stop Non-vitamin K Antagonist Oral Anticoagulants before Catheter Ablation of Atrial Fibrillation? A Multicentre Prospective Randomized Study**
Hee Tae Yu / Yonsei Univ., Korea
- 14:09 - 14:12 **Critique**
Seongwook Han / Keimyung Univ., Korea
- 14:12 - 14:15 **Discussion**
-
- 14:15 - 14:24 **Outcomes of Direct Oral Anticoagulants in Patients with Mitral Stenosis**
Ju Youn Kim / Catholic Univ., Korea
- 14:24 - 14:27 **Critique**
Eue-Keun Choi / Seoul National Univ., Korea
- 14:27 - 14:30 **Discussion**
-
- 14:30 - 14:39 **Direct Oral Anticoagulants in Patients with Nonvalvular Atrial Fibrillation and Low Body Weight**
So-Ryoung Lee / Seoul National Univ., Korea
- 14:39 - 14:42 **Critique**
Jong-Il Choi / Korea Univ., Korea
- 14:42 - 14:45 **Discussion**
-
- 14:45 - 14:54 **Cryptogenic Stroke and High-Risk Patent Foramen Ovale: The DEFENSE-PFO Trial**
Jae-Kwan Song / Ulsan Univ., Korea
- 14:54 - 14:57 **Critique**
Jae Hyung Park / Korea Univ., Korea
- 14:57 - 15:00 **Discussion**
-
- 15:00 - 15:09 **P2Y12 Inhibitor Monotherapy versus Dual Antiplatelet Therapy in Patients Undergoing Percutaneous Coronary Intervention: The SMART-CHOICE Randomized, Open-label, Noninferiority Trial**
Joo-Yong Hahn / Sungkyunkwan Univ., Korea
- 15:09 - 15:12 **Critique**
Jung Rae Cho / Hallym Univ., Korea
- 15:12 - 15:15 **Discussion**

- 15:15 - 15:24 **Deferred vs. Performed Revascularization for Coronary Stenosis with Grey-zone Fractional Flow Reserve Values: Data from the IRIS-FFR Registry**
Do-Yoon Kang / Ulsan Univ., Korea
- 15:24 - 15:27 **Critique**
Myeong Ho Yoon / Ajou Univ., Korea
- 15:27 - 15:30 **Discussion**

Grand 4

14:00 - 15:30

Chairpersons
주승재, 홍경순

Panel
박상민, 박성미,
변영섭, 정진욱

Women Heart Disease 1

Exercise in Women

- 14:00 - 14:20 **Cardiovascular Metabolism of Exercise**
김현진 / 한양대의대
- 14:20 - 14:40 **Gender Aspect in Sports Medicine**
김학령 / 서울대의대
- 14:40 - 15:00 **Cardiac Remodeling According to Exercise Type**
김계훈 / 전남대의대
- 15:00 - 15:20 **Exercise in Old Frailly Women**
윤동환 / 경희대의대
- 15:20 - 15:30 **Discussion**

Walker 1

14:00 - 15:30

Chairpersons
채성철, 김무현

Panel
나득영, 배장환,
양태현, 이봉렬,
황진용

Myocardial Infarction 3

AMI Updates and Debates

- 14:00 - 14:20 **Interpreting Highly Sensitive Troponins in Acute Chest Pain: Myocardial Injury or Infarction?**
김정수 / 부산대의대
- 14:20 - 14:40 **DAPT Updates: What Is Optimal Combination Strategy in Asian AMI?**
박용휘 / 경상대의대
- 14:40 - 15:00 **Optimising OAC in AMI Patient with AF Undergoing PCI**
이종영 / 성균관대의대

Walker 2

14:00 - 15:30

Chairpersons
탁승제, 김두일

Panel
김수중, 김웅,
김원, 김준홍,
이왕수, 임홍석,
최윤석

Cosmos

14:00 - 15:30

Chairpersons
박승우, 오세일

Panel
김영학, 노재형,
윤연이

- 15:00 - 15:20 **To Cath or Not to Cath in OHCA without ST Elevation: Let's Pause and Review the Data**
이장훈 / 경북의대
- 15:20 - 15:30 **Discussion**

Intervention 1

New Comer of Invasive Coronary Physiology in 2019

- 14:00 - 14:12 **Myocardial Mass on the Anatomy and Physiology Discrepancy**
최진호 / 성균관대의대
- 14:12 - 14:24 **Clinical Relevance of Gender Difference in Coronary Physiology**
김지혜 / 중앙보훈병원
- 14:24 - 14:36 **5-Year Outcomes According to FFR of Left Circumflex Coronary Artery after Left Main Crossover Stenting**
이철현 / 울산대의대
- 14:36 - 14:48 **Angiography Derived Physiologic Index QFR**
이현종 / 세종병원
- 14:48 - 15:30 **Discussion**

Smart Health

의료정보화와 심장질환

- 14:00 - 14:20 **딥러닝의 기초 및 심혈관 질환 적용**
송교석 / 메디픽셀㈜
- 14:20 - 14:40 **인공지능 기술의 임상적용: 허와 실**
박성호 / 울산대의대
- 14:40 - 15:00 **Artificial Intelligence Applications of SIEMENS Healthineers**
박성용 / 지멘스코리아
- 15:00 - 15:20 **Digital Health Technologies for Chronic Disease Management**
박하영 / 서울대학교
- 15:20 - 15:30 **Discussion**

Calla

14:00 -
15:30

Chairpersons

Keiichi Fukuda,
Youngkeun Ahn

Panel

Yoo-Wook Kwon,
Hun-Jun Park,
Woo Cheol Chang

Eng JCS-KSC Joint Session: Basic Research

Roadmap for Cardiac Regeneration

- 14:00 - 14:20 **Distinctive Roles of Stem Cell-inspired Macrophages in Supporting Cardiac Repair**
Yong Sook Kim / Chonnam National Univ., Korea
- 14:20 - 14:40 **Clinical Application of HLA-matched Human iPS Cell-derived Cardiomyocytes for the Treatment of Sever Congestive Heart Failure**
Keiichi Fukuda / Keio Univ., Japan
- 14:40 - 15:00 **Latrophilin-2, a G-protein Coupled Receptor: Functional Significance in Heart Development and Regeneration**
Hyun-Jai Cho / Seoul National Univ., Korea
- 15:00 - 15:20 **Engineering of Biological Artificial Heart ~ Next Step for Cardiac Regeneration?**
Jong-Kook Lee / Osaka Univ., Japan
- 15:20 - 15:30 **Discussion**

Art

14:00 -
15:30

Chairpersons

김기식, 신준한

Panel

윤종찬, 이상재,
조은주

Echocardiography 1

Reviewing the Old and Learning the New in Heart Failure

- 14:00 - 14:20 **Cardiac Catheterization Is Needed in Our Clinical Practice**
김형관 / 서울의대
- 14:20 - 14:40 **Let's Focus on Conventional Echocardiographic Findings**
김형섭 / 계명대의대
- 14:40 - 15:00 **New Echocardiographic Modalities Are Challenging**
박재형 / 충남의대
- 15:00 - 15:20 **New Imaging Modalities Other than Echocardiography Are Ready**
전은주 / 서울의대
- 15:20 - 15:30 **Discussion**

Pine

14:00 -
15:30

Chairpersons

Do Nguyen Tin,
Tae Gook Jun

Eng VNHA-KSC Joint Session: CHD

Past and Present in Congenital Heart Disease – Vietnam and Korea

- 14:00 - 14:20 **Transcatheter Intervention for ASD Closure**
Jae Young Choi / Yonsei Univ., Korea
- 14:20 - 14:40 **Transcatheter Intervention for VSD Closure**
Do Nguyen Tin / Children Hospital No1, Vietnam
- 14:40 - 15:00 **Surgical Treatment for TOF in Infant and Adult**
Chang-Ha Lee / Sejong Hospital, Korea
- 15:00 - 15:20 **Surgical Treatment for CHD in Vietnam**
Nguyen Ly Thinh Truong / National Children's Hospital, Vietnam
- 15:20 - 15:30 **Discussion**

Theatre

15:40 -
17:10

Chairpersons

오용석, 강석민

Panel

박경민, 박성미,
조현재, 최의근,
최종일, 최진오

Cross Specialty: Arrhythmia & Heart Failure

1. What You May Not Know...

- 15:40 - 15:55 **Catheter Ablation in Patients with Atrial Fibrillation and Heart Failure**
정보영 / 연세의대
- 15:55 - 16:10 **What EP Guy Should Know about AF in HF – From the View of HF Specialist**
김응주 / 고려의대
- 16:10 - 16:23 **Discussion**

2. The Good, The Bad, and The Weird

- 16:25 - 16:40 **Ventricular Arrhythmia**
박상원 / 세종병원
- 16:40 - 16:55 **Medical Treatment in HF**
김민석 / 울산의대
- 16:55 - 17:08 **Discussion**

Grand 4

15:40 -
17:10

Chairpersons

조정관, 김명아

Panel

김성수, 신미승,
윤현주, 차명진

Women Heart Disease 2

Arrhythmia in Women

- 15:40 - 16:00 **Gender Specific Approach to Palpitation**
한성욱 / 계명대의대
- 16:00 - 16:20 **Sex Differences in Arrhythmia**
임우현 / 서울의대
- 16:20 - 16:40 **Anticoagulation in Women**
김형윤 / 전남의대
- 16:40 - 17:00 **Management of Arrhythmia in Pregnancy**
박예민 / 가천의대
- 17:00 - 17:10 **Discussion**

Walker 1

15:40 -
17:10

Chairpersons

Yangsoo Jang,
Cheol Whan Lee

Panel

Oh Hoon Kwon,
Jung-Sun Kim,
Sung Ha Park,
Jang-Whan Bae,
Jaewon Oh,
Hee Tae Yu,
Jo Won Jung,
Geu-Ru Hong

Eng Meet the Editor

Why I Chose This Paper from Korea

- 15:40 - 16:05 **Circulation Journal**
Satoshi Yasuda / National Cerebral and Cardiovascular, Japan
- 16:05 - 16:30 **Journal of Heart and Lung Transplantation**
Jon A. Kobashigawa / Cedars-Sinai, USA
- 16:30 - 16:55 **JACC: Heart Failure**
Barry Greenberg / Univ. of California San Diego, USA
- 16:55 - 17:10 **Discussion**

Walker 2

15:40 -
17:10

Chairpersons

Seung-Jung Park,
Tae Hoon Ahn

Panel

Woong Chol Kang,
Eun-Seok Shin,
Hong-Seok Lim,
Jae-Sik Jang,
Seonghoon Choi,
Yun Seok Choi,
Kyoo Rok Han,
Sung Jin Hong,
Young Joon Hong

Cosmos

15:40 -
17:10

Chairpersons

노영무, 이흥재

Panel

김여향, 김웅한,
송진영, 양동현,
양지혁, 이창하

Essence Eng Intervention 2

The Interventional Cardiovascular Medicine Perspective: Insights, Innovation, and The Next Decade

- 15:40 - 15:55 **PCI in Perspective: Evolution, Impact and Future Expectations**
Youngkeun Ahn / Chonnam National Univ., Korea
- 15:55 - 16:10 **Valve Intervention in Perspective: Evolution, Impact and Future Expectations**
Hyo-Soo Kim / Seoul National Univ., Korea
- 16:10 - 16:25 **Antithrombotics in Perspective: Evolution, Impact and Future Expectations**
Young-Hoon Jeong / Gyeongsang National Univ., Korea
- 16:25 - 16:50 **Lipid-Rich Plaque Imaging Study in Identifying High-Risk Patients**
Hector M. Garcia-Garcia / Washington Hospital Center, USA
- 16:50 - 17:10 **Discussion**

Cardiac Pathology

Cardiac Pathology Services and Education

- 15:40 - 16:00 **Diagnostic Cardiac Pathology Services at Samsung Medical Center**
김정선 / 성균관대의대
- 16:00 - 16:20 **Forensic Cardiac Pathology and Education at Kyungpook National University**
이상한 / 경북의대
- 16:20 - 16:40 **Sharing Educational Resources of Cardiac Pathology at Seoul National University**
서정욱 / 서울의대
- 16:40 - 17:10 **Discussion**

Calla

15:40 -
17:10

Chairpersons

Ario Soeryo Kuncoro,
Seung Woo Park

Eng IHA-KSC Joint Session: Echocardiography/Imaging

Imaging Issues of HCM and ACHD

- 15:40 - 16:00 **Recent Issues in Diagnosis and Treatment of HCM**
Iksung Cho / Chung-Ang Univ., Korea
- 16:00 - 16:20 **Role of Echocardiography in Intervention Procedures: Going for the Next Level**
Ario Soeryo Kuncoro / National Heart Center Harapan Kita Hospital, Indonesia
- 16:20 - 16:40 **Recent Issues in ACHD: Focused on Treatment Decision**
Lucy Youngmin Eun / Yonsei Univ., Korea
- 16:40 - 17:00 **Imaging in Congenital Heart Disease: Are We Already Moving Towards to the Use of Non-invasive Technique?**
Oktavia Lilyasari / National Heart Center Harapan Kita Hospital, Indonesia
- 17:00 - 17:10 **Discussion**

Art

15:40 -
17:10

Chairpersons

권준, 하중원

Panel

박태호, 정옥진,
최의영

Essence Echocardiography 2

Valvular Heart Diseases

- 15:40 - 16:00 **How to Treat Asymotomatic Severe Aortic Stenosis**
강덕현 / 울산의대
- 16:00 - 16:20 **Prosthetic Valve Dysfunction: How Can We Evaluate and Interpret**
조인정 / 이화대의대
- 16:20 - 16:40 **Pitfall in Quantifying Mitral Regurgitation**
심지영 / 연세의대
- 16:40 - 17:00 **How Can We Incorporate? 3D Echocardiography into Daily Clinical Practice: Case Based Learning**
박성지 / 성균관의대
- 17:00 - 17:10 **Discussion**

Pine

15:40 -
17:10

Chairpersons

오병희, 정명호

Panel

유병수, 윤창환

KCDC-KSC Joint Session

Cardiovascular Disease Registry

- 15:40 - 16:00 **급성심부전레지스트리 KorAHF(Korean Acute Heart Failure Registry)**
이혜영 / 서울의대
- 16:00 - 16:20 **Current Status of Korea Acute Myocardial Infarction Registry and Insights from Korea Acute Myocardial Infarction Registry-National Institutes of Health Registry (KAMIR-NIH)**
정명호 / 전남의대
- 16:20 - 16:40 **질병관리본부의 향후 심혈관질환 레지스트리 구축계획 (Future Plan of Cardiovascular Disease Registry by KCDC)**
김원호 / 질병관리본부
- 16:40 - 17:10 **Discussion**

*KCDC(Korea Centers for Disease Control & Prevention): 질병관리본부

19
Sat.DAY 2
KSC 2019 Program

Theatre

08:40 -
10:10Chairpersons
김효수, 안영근Panel
김용철, 박경우,
안정민, 조정래

Video Session 1

Complex and High-risk Coronary Intervention (CHIP)
in Real World Clinical Practices

- 08:40 - 09:00 **Tips and Tricks of ECMO Management in Cardiogenic Shock**
양정훈 / 성균관대
- 09:00 - 09:20 **Left Main Bifurcation PCI**
박덕우 / 울산대
- 09:20 - 09:40 **Rotablator-guided PCI**
김민철 / 전남대
- 09:40 - 10:00 **Benefits of Imaging and Physiology Guided PCI**
허정호 / 고신대
- 10:00 - 10:10 **Discussion**

Walker 1

08:40 -
10:10Chairpersons
YoungKeun On,
Hui Nam Pak,
Seongwook HanPanel
Jae-Jin Kwak,
Chang Hee Kwon,
Doosang Kim,
Sung Ho Lee

Eng Arrhythmia 3

AF Summit

- 08:40 - 08:48 **Catheter Ablation of AF: CABANA, CASTLE AF**
Eue-Keun Choi / Seoul National Univ., Korea
- 08:48 - 08:56 **New Insights into Arrhythmia Mechanisms Using a High Density Multielectrode Mapping Array**
Jae-Sun Uhm / Yonsei Univ., Korea
- 08:56 - 09:04 **Techniques for PV Isolation: Faster and Better to Make Permanent PV Isolation?**
Jun Kim / Ulsan Univ., Korea
- 09:04 - 09:12 **Non PV Triggers: How to Map and Treat?**
Hyoung Seob Park / Keimyung Univ., Korea
- 09:12 - 09:20 **How to Reduce Fatal Complications of AF Ablation?**
Jaemin Shim / Korea Univ., Korea
- 09:20 - 09:35 **Ablation Technique of Persistent AF**
Chun Hwang / Utah Valley Regional Medical Center, USA

Walker 2

08:40 -
10:10Chairpersons
김성호, 송종민Panel
김여향, 박재형,
이재영, 이철,
장소익, 최의영

Calla

08:40 -
10:10Chairpersons
주석중, 유승기Panel
김성애, 손정우,
이선기

- 09:35 - 09:50 **Cryo and Laser for Persistent AF**
Julian Chun / Cardioangiologisches Centrum Bethanien, Germany
- 09:50 - 10:10 **Discussion**

Cross Specialty: Cardiac Pathology & Adult Congenital Heart Disease

Pathologic Exploration of Adult Congenital Heart Disease: Right-sided Congenital Heart Diseases

- 08:40 - 09:10 **Adult Congenital Disease with Right Heart Abnormality**
김은경, 김정선 / 성균관대
- 09:10 - 09:25 **TOF Pathology from Infant to Adult**
서정욱 / 서울대
- 09:25 - 09:40 **TOF Surgical Aspect**
이창하 / 세종병원
- 09:40 - 09:55 **Clinical Issues and Management of Adult Patients with Repaired TOF**
박준빈 / 서울대
- 09:55 - 10:10 **Treatment of Repaired TOF Patients- When and How to Treat?**
김기범 / 서울대

Vascular 1

Recent Update for Venous Disorder

- 08:40 - 09:00 **Risk Assessment and Diagnosis of Provoked and Unprovoked VTE**
조은주 / 가톨릭대
- 09:00 - 09:20 **IVC Filter and/or Venous Thrombectomy: When to Perform?**
안철민 / 연세대
- 09:20 - 09:40 **Extended Anticoagulation for VTE in Clinical Practice**
김성환 / 고려대
- 09:40 - 10:00 **Surgical Treatment of Chronic Venous Insufficiency**
전강웅 / 가톨릭대
- 10:00 - 10:10 **Discussion**

Art

Echocardiography 3

08:40 -
10:10

A Best Way to Detect Myocardial Ischemia and Viability

Chairpersons
손대원, 송재관08:40 - 09:00 **Role of Strain Echocardiography**

조구영 / 서울의대

09:00 - 09:20 **Role CMR**

최연현 / 성균관대의대

09:20 - 09:40 **Role of Cardiac CT with FFR**

김영학 / 울산의대

09:40 - 10:00 **Role of Nuclear Imaging**

강원준 / 연세의대

10:00 - 10:10 **Discussion**

Pine

Cardiac Surgery 1

08:40 -
10:10

How to Improve Results of CABG

Chairpersons
지현근, 김육성08:40 - 08:55 **What Makes It Different: Characteristics and Patency of the ITA Graft**

오세진 / 서울의대

08:55 - 09:10 **Off Pump CABG: Is It Really Beneficial?**

김준성 / 서울의대

09:10 - 09:25 **Combating SV Graft Failure**

황호영 / 서울의대

09:25 - 09:40 **Role of PCI after CABG**

박택규 / 성균관대의대

09:40 - 09:55 **Minimally Invasive CABG; When and How?**

이기종 / 연세의대

09:55 - 10:10 **Discussion**Panel
김도정, 김준범,
류상완

Theatre

10:20 -
11:50Chairpersons
Young-Hoon Kim,
Tae Joon Cha

Walker 1

10:20 -
11:50Chairpersons
이명묵, 한규록Panel
Early Invasive:
강응철, 윤창환,
이상엽, 이재환
VS.
Conservative:
김응주, 양동현,
정육진, 한성우

Eng New Frontiers in Cardiology 2

Plenary Lecture in Arrhythmia

10:20 - 10:40 **Key Note Lecture: VT Ablation**

Chun Hwang / Utah Valley Regional Medical Center, USA

10:40 - 11:00 **AF Ablation**

Julian Chun / Cardioangiologisches Centrum Bethanien, Germany

11:00 - 11:20 **AF Screening – What's Here and What's New**

Ben Freedman / Univ. of Sydney, Australia

11:20 - 11:40 **Transcriptional Regulation of Cardiac Conduction & Excitability**

David Park / New York Univ., USA

11:40 - 11:50 **Discussion**

Cross Specialty: Intervention & Heart Failure

Case Based Discussions: Heart Failure and Cardiac Enzyme Elevation: Early Invasive VS. Conservative

10:20 - 10:35 **Introduction: HF and Myocardial Ischemia**

유병수 / 연세원주의대

10:35 - 10:50 **Immediate Invasive Strategy (<2h) or Early Invasive Strategy (<24hrs) Is Better**

이장훈 / 경북의대

10:50 - 11:05 **Invasive Strategy (<72hrs) Is Better**

박만원 / 가톨릭의대

11:05 - 11:20 **HF and Cardiac Enzyme Elevation without Coronary Obstruction**

김계훈 / 전남의대

11:20 - 11:50 **Discussion**

Walker 2

10:20 -
11:50

Chairpersons

Juey-Jen Hwang,
Youngkeun Ahn

Panel

Bong-Ki Lee,
Young-Hoon Jeong,
Sung Jin Hong,
Young Joon Hong

Eng TSOC-KSC Joint Session: Intervention

- 10:20 - 10:40 **Preparing for the Battle: The Right Way and Weapon to Win the Game**
Yong Cheol Kim / Chonnam National Univ., Korea
- 10:40 - 11:00 **IVUS – Guided Wire Re-entry Technique in Complex CTO PCI**
Tse-Min Lu / Taipei Veterans Hospital, Taiwan
- 11:00 - 11:20 **Complete Revascularization for Multivessel Disease: When and How?**
Hyung Joon Joo / Korea Univ., Korea
- 11:20 - 11:40 **Intervention for Post MI Mechanical Complication: When and How?**
Chun-Chi Chen / Chang Gung Memorial Hospital, Taiwan
- 11:40 - 11:50 **Discussion**

Calla

10:20 -
11:50

Chairpersons

Jong-Won Ha,
Hae Ok Jung

Panel

Juhan Kim,
Sang Hoon Seol,
Il Suk Sohn

Eng Vascular 2

Vascular Inflammation and Imaging

- 10:20 - 10:40 **Role of Vascular Smooth Cell in the Inflammation of the Artery**
Sung Ha Park / Yonsei Univ., Korea
- 10:40 - 11:00 **Molecular Imaging for Vascular Inflammation and Atherosclerosis**
Jonathan R. Lindner / Oregon Health & Science Univ., USA
- 11:00 - 11:20 **Vascular Calcification: Pathogenesis and Clinical Implications**
Hae-Young Lee / Seoul National Univ., Korea
- 11:20 - 11:40 **Assessment of Capillary Function in Diabetes and Metabolic Syndrome**
Jonathan R. Lindner / Oregon Health & Science Univ., USA
- 11:40 - 11:50 **Discussion**

Grand 6

10:20 -
11:50

Art

10:20 -
11:50

Chairpersons

박종춘, 장경식

Panel

나진오, 박용현,
윤현주

Pine

10:20 -
11:50

Chairpersons

박남희, 윤영남

Panel

송승환, 이재진,
임주영, 정인석대한민국 국회 보건복지위원회 위원장 김세연 의원
초청 간담회

고령화 사회 대비한 심뇌혈관질환 정책 수립

Echocardiography 4

Interesting Cases from Diverse Institutions

- 10:20 - 10:35 **Patients with Fever**
김현진 / 한양의대
- 10:35 - 10:50 **Patients with Mass**
김인철 / 계명대의대
- 10:50 - 11:05 **Patients with Dyspnea**
손창원 / 영남의대
- 11:05 - 11:20 **Patients with Chest Pain**
장정윤 / 경상대의대
- 11:20 - 11:50 **Discussion**

Cardiac Surgery 2

Current Status of HF Surgery in Korea

- 10:20 - 10:35 **How to Evaluate and Manage Frailty for Patients with CHF**
김동중 / 서울의대
- 10:35 - 10:50 **Selection of Patients for LVAD in Korea; Medical and Social Issues**
정성호 / 울산의대
- 10:50 - 11:05 **Technical Tips for LVAD Implantation**
조양현 / 성균관대의대
- 11:05 - 11:20 **Lessons Learned from Starting a Transplant Program**
장우성 / 계명대의대
- 11:20 - 11:35 **What Comes after Establishing a VAD Program; Coordinator's View**
최남경 / 삼성서울병원
- 11:35 - 11:50 **Discussion**

Theatre

12:00 -
12:40Chairpersons
안태훈, 정명호

Scientific Session [Pfizer]

Advanced Management of Venous
Thromboembolism and Hyperlipidemia12:00 - 12:20 **From Trials to Clinical Practice: Long-term
Treatment of VTE Patients**
김계훈 / 전남의대12:20 - 12:40 **Entire Scope of Practice for Secondary Prevention
Programs through Aggressive Lipid Lowering**
이장훈 / 경북의대

Grand 4

12:00 -
12:40Chairpersons
권현철, 박한식

Scientific Session [Amgen]

Implementation of PCSK9 Inhibitors in Practice

12:00 - 12:20 **Who Should Be Treated With PCSK9 Inhibitor:
ASCVD Patients**
김민철 / 전남의대12:20 - 12:40 **Patients Needing PCSK9 Inhibitors: FH**
이상학 / 연세의대

Walker 1

12:00 -
12:40Chairpersons
채인호, 윤영근

Diamond Session [Bayer]

Tailored Protection for Your Cardio-vascular
Patients12:00 - 12:20 **New Treatment Paradigm in Chronic CAD and/or
PAD; Which Patient Benefit the Most from
Rivaroxaban 2.5mg + ASA?**
배장환 / 충북의대12:20 - 12:40 **Considering Renal Outcome for NVAf Patient;
Insights from Rivaroxaban's Clinical Trials**
박형섭 / 계명대의대

Walker 2

12:00 -
12:40Chairperson
조명찬

Scientific Session [MSD]

Protecting CVD in the Future

12:00 - 12:40 **The Benefit of Ezetimibe/atorvastatin FDCs in
Coronary Patients with Hypercholesterolemia**
한기훈 / 울산의대

Cosmos

12:00 -
12:40Chairpersons
채성철, 편옥범

Scientific Session [Dong-A ST/Takeda]

The New Strategy of BP Control for Uncontrolled
Hypertensive Patients12:00 - 12:20 **Optimal Anti-Hypertensives in CardioMetabolic
Diseases with Hypertension**
박상민 / 한림의대12:20 - 12:40 **New Paradigm of Combination Therapy for
Uncontrolled Hypertensive Patients**
이주희 / 충북의대

Theatre

14:00 -
15:30Chairpersons
안태훈, 권현철Panel
신승용, 양정훈,
장기욱, 최승혁

Video Session 2

Challenging Structural, Valvular, and Vascular
Interventions14:00 - 14:20 **TAVR Procedure with Minimalist Approach**
안정민 / 울산의대14:20 - 14:40 **What You Need to Know about LAA Occlusion**
김종선 / 연세의대14:40 - 15:00 **Zero-fluoroscopy AF Ablation**
차명진 / 서울의대15:00 - 15:20 **Balloon Pulmonary Angioplasty in Patient
with Chronic Thromboembolic Pulmonary
Hypertension(CTEPH)**
안철민 / 연세의대15:20 - 15:30 **Discussion**

Grand 4

14:00 -
15:30Chairpersons
이민석, 전병원Panel
권용석, 김태우,
김희준, 박경진,
이승훈, 임세영,
장정호, 정강수

Nurse-Technician Session 1

CHIP Intervention Case Review

- 14:00 - 14:12 **CHIP CASE 1_CTO**
이지호 / 대전성모병원
- 14:12 - 14:24 **CHIP CASE 2_Bifurcation**
박상만 / 삼성서울병원
- 14:24 - 14:36 **CHIP CASE 3_Severely Calcification**
이재범 / 신촌세브란스병원
- 14:36 - 14:48 **CHIP CASE 4_Rescue Bypass Surgery**
강연수 / 서울성모병원
- 14:48 - 15:00 **CHIP CASE 5_Acute and Late Thrombosis**
조용찬 / 충남대학교병원
- 15:00 - 15:30 **Discussion**

Walker 1

14:00 -
15:30Chairpersons
신동구, 배은정,
남기병Panel
고점석, 배한준,
황진경

Arrhythmia 4

VT & PSVT Summit

- 14:00 - 14:08 **Diagnostic Pacing Maneuvers for Supraventricular Tachycardia**
김동민 / 단국의대
- 14:08 - 14:16 **Treatment of PSVT**
박환철 / 한양의대
- 14:16 - 14:24 **Unusual SVT Cases**
김동혁 / 세종병원
- 14:24 - 14:32 **Differential Diagnosis of Wide QRS Complex Tachycardias**
김유리 / 동국의대
- 14:32 - 14:40 **ECG Localization: Outflow VT**
진은선 / 경희의대
- 14:40 - 14:48 **ECG Localization: Non-outflow VT**
김진석 / 고려의대
- 14:48 - 14:56 **Unipolar and Bipolar Electrogram Analysis during Mapping**
김태훈 / 연세의대
- 14:56 - 15:04 **Mapping and Ablation of LV and RV PVCs**
박경민 / 성균관의대
- 15:04 - 15:12 **Epicardial Ablation: When and How?**
윤남식 / 전남의대
- 15:12 - 15:30 **Discussion**

Walker 2

14:00 -
15:30Chairpersons
정명호, 김성래Panel
김수중, 배재현

Cross Specialty: Intervention & Diabetes

Best Approach for CV Risk Reduction in Diabetes

- 14:00 - 14:20 **Best Coronary Revascularization Strategy in Diabetic Patients**
박덕우 / 울산의대
- 14:20 - 14:40 **Secondary Prevention for Coronary Artery Disease in Diabetic Patients**
홍순준 / 고려의대
- 14:40 - 15:00 **From Evidence to Practice: SGLT2 Inhibitors for CV Risk Reduction in Diabetes**
임수 / 서울의대
- 15:00 - 15:20 **From Evidence to Practice: GLP-1 Analogues for CV Risk Reduction in Diabetes**
김병준 / 가천의대
- 15:20 - 15:30 **Discussion**

Cosmos

14:00 -
15:30Chairpersons
채성철, 조명찬Panel
김명아, 박상민,
유승기, 이수용,
정욱진

Heart Failure 3

Do We Need Reclassification of HF?
Time for Disruptive Innovation

- 14:00 - 14:15 **Problems in LVEF-based Classification**
장세용 / 경북의대
- 14:15 - 14:30 **According to Etiology?**
김성해 / 건국의대
- 14:30 - 14:45 **According to Hemodynamics?**
박재형 / 충남의대
- 14:45 - 15:00 **According to Co-morbid Phenotype?**
이상연 / 울산의대
- 15:00 - 15:30 **Discussion**

Calla

Echocardiography 5

14:00 -
15:30

Role of Cardiac Imaging in the Risk Stratification

- 14:00 - 14:15 **Risk Stratification in Patients with Ischemic Heart Disease**
조익성 / 중앙의대
- 14:15 - 14:30 **Risk Stratification in Patients with Valvular Heart Disease**
선병주 / 충남의대
- 14:30 - 14:45 **Risk Stratification in Patients with Hypertrophic Cardiomyopathy**
이상철 / 성균관대의대
- 14:45 - 15:00 **Risk Stratification in Patients with Heart Failure**
최정현 / 부산의대
- 15:00 - 15:30 **Discussion**

Chairpersons
박승우, 김용진

Panel
설상훈, 손정우,
이선화

Art

Eng Pediatric Cardiology 1

14:00 -
15:30

More than Shunt

- 14:00 - 14:15 **How to Assess PDA**
Jae Young Lee / Catholic Univ., Korea
- 14:15 - 14:30 **Challenging PDA Closure - Device Options**
Gi Young Jang / Korea Univ., Korea
- 14:30 - 14:45 **Imaging for MAPCA in PA with VSD**
Hyun Woo Goo / Ulsan Univ., Korea
- 14:45 - 15:00 **Repair with or without Unifocalization for MAPCA in PA VSD**
Han Ki Park / Yonsei Univ., Korea
- 15:00 - 15:20 **Assessment for All about Shunt Diseases from the Fetus to the Adult**
Achi Ludomirsky / NYU Hassenfeld Children's Hospital, USA
- 15:20 - 15:30 **Discussion**

Chairpersons
Tae Gook Jun,
Jae Young Choi

Panel
Hyungtae Kim,
Mi-Kyoung Song,
Sungkyu Cho,
Seulgi Cha

Pine

14:00 -
15:30

Chairpersons
신세현, 이상형

Panel
박철우, 염은섭,
이준상, 팽동국

Oak

14:00 -
15:30

Chairpersons
배장환, 김현창

Panel
노재형, 성기철,
이주미

BESCO 1

Biomedical Engineering Society for Circulation 1

- 14:00 - 14:18 **Wall Shear Stress Estimation and Accuracy of Blood Vessel by Using 4-D Flow MRI**
송시문 / 한양대학교
- 14:18 - 14:36 **Cardiovascular Complications of Cancer Therapy**
김학진 / 국립암센터
- 14:36 - 14:54 **MR Velocity Study of Severe Carotid Artery Stenosis Patients Who Underwent Carotid Endarterectomy**
김두상 / 중앙보훈병원
- 14:54 - 15:12 **Monitoring of Tissue Perfusion**
안예찬 / 부경대학교
- 15:12 - 15:30 **Discussion**

Epidemiology

How to Use National Health Insurance Data for CVD Epidemiology Study

- 14:00 - 14:20 **Ascertainment of Cardiovascular Outcomes**
강시혁 / 서울의대
- 14:20 - 14:40 **Measure of Medication Uses**
신동욱 / 성균관대의대
- 14:40 - 15:00 **Control of Socioeconomic Factors**
윤진하 / 연세의대
- 15:00 - 15:20 **Nested Case-Control Sampling**
하경화 / 아주의대
- 15:20 - 15:30 **Discussion**

Theatre

15:40 -
17:10Chairpersons
곽충환, 신은석Panel
서정원, 박형섭,
이경훈, 최종일

Cross Specialty: Intervention & Arrhythmia

Antithrombotic Strategy in Patients Undergone PCI with AF

- 15:40 - 15:55 **Antithrombotic Therapy in Patients with AF Undergoing PCI: Dual or Triple Therapy?**
박근호 / 조선의대
- 15:55 - 16:10 **Antithrombotic Strategy in AF with Stable CAD and PAD**
정영훈 / 경상의대
- 16:10 - 16:25 **Antithrombotic Therapy in Korean Patients with AF and CAD: Where Are We Now?**
이소형 / 서울의대
- 16:25 - 16:40 **Periprocedural Management in AF Patients with NOACs: PCI and RFCA**
유희태 / 연세의대
- 16:40 - 16:55 **Left Atrial Appendage Occlusion in AF Patient with CAD: Which Patients Would Undergo?**
임홍익 / 한림의대
- 16:55 - 17:10 **Discussion**

Grand 4

15:40 -
17:10Chairpersons
백성일, 박은심Panel
강준원, 김정훈,
박일형, 신용학,
유지완, 이성우,
이현진, 이희봉,
장순덕

Nurse-Technician Session 2

Cathlab Patient Care and Management

- 15:40 - 15:55 **Preparing Coronary Intervention; Assess Site, Wire, Diagnostic Catheter**
노진석 / 서울아산병원
- 15:55 - 16:10 **On the Transradial Approach; The Technique of Radial Artery Management**
김민정 / 강남세브란스병원
- 16:10 - 16:25 **How Can We Save Internal Iliac Artery in Evar; Different Devices and Different Techniques**
이규성 / 대전충지병원
- 16:25 - 16:40 **Introduction and Management of Drugs for Acute Myocardial Infarction Patients**
고익영 / 아주대학교병원
- 16:40 - 16:55 **Introducing the Latest Knowledge Related to NOAC**
김태연 / 고려대학교안암병원
- 16:55 - 17:10 **Discussion**

Walker 1

15:40 -
17:10Chairpersons
오동주, 김동수

Walker 2

15:40 -
17:10Chairpersons
Hyo-Soo Kim,
Do-Sun LimPanel
Seok Min Kang,
Jae-hyeong Roh,
Youngkeun Ahn,
Kiyuk Chang,
Wook-Jin Chung,
Sang-Ho Jo

Geriatric Cardiology

It Is Now to Start Geriatric Cardiology

- 15:40 - 16:00 **Why Geriatric Cardiology?**
김기식 / 대구가톨릭의대
- 16:00 - 16:20 **Outcomes of PCI and TAVR in Octagenarian (≥80years old)**
박승정 / 울산의대
- 16:20 - 16:40 **Heart Rhythm Therapy and Intervention in the Elderly: Rationale and Specific Age-related Considerations**
김영훈 / 고려의대
- 16:40 - 17:00 **Changing Trends and Prospects for the Future in the Ageing Population in the Republic of Korea**
김한곤 / 영남대학교
- 17:00 - 17:10 **Discussion**

Eng Featured Clinical Research 2

- 15:40 - 15:49 **Cyclase-associated Protein 1 (CAP1) Is a Binding Partner of Proprotein Convertase Subtilisin/kexin Type-9 (PCSK9) and Is Required for the Degradation of Low-density Lipoprotein Receptors by PCSK9**
Hyunduk Jang / Seoul National Univ., Korea
- 15:49 - 15:52 **Critique**
Sang-Ho Jo / Hallym Univ., Korea
- 15:52 - 15:55 **Discussion**
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- 15:55 - 16:04 **Nanovesicles Derived from Iron Oxide Nanoparticles-incorporated Mesenchymal Stem Cells for Cardiac Repair**
Hun-Jun Park / Catholic Univ., Korea
- 16:04 - 16:07 **Critique**
Youngkeun Ahn / Chonnam National Univ., Korea
- 16:07 - 16:10 **Discussion**

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- 16:10 - 16:19 **Repurposing of Macrophages for Cardiac Regeneration**
Yong Sook Kim / Chonnam National Univ., Korea
- 16:19 - 16:22 **Critique**
Kiyuk Chang / Catholic Univ., Korea
- 16:22 - 16:25 **Discussion**
-
- 16:25 - 16:34 **Assessment of Inflammation in Pulmonary Artery Hypertension by 68Ga-Mannosylated Human Serum Albumin**
Seung Pyo Lee / Seoul National Univ., Korea
- 16:34 - 16:37 **Critique**
Wook-Jin Chung / Gachon Univ., Korea
- 16:37 - 16:40 **Discussion**
-
- 16:40 - 16:49 **Angiotensin Receptor Neprilysin Inhibitor for Functional Mitral Regurgitation**
Sahmin Lee / Ulsan Univ., Korea
- 16:49 - 16:52 **Critique**
Seok Min Kang / Yonsei Univ., Korea
- 16:52 - 16:55 **Discussion**
-
- 16:55 - 17:04 **Selective Referral Using CCTA versus Direct Referral for Individuals Referred to Invasive Coronary Angiography for Suspected CAD: A Randomized, Controlled, Open-Label Trial**
Hyuk-Jae Chang / Yonsei Univ., Korea
- 17:04 - 17:07 **Critique**
Jae-hyeong Roh / Chungnam National Univ., Korea
- 17:07 - 17:10 **Discussion**

Cosmos

15:40 -
17:10

Chairpersons

Byung-Hee Oh,
Eun Seok Jeon

Panel

In-Cheol Kim,
Eui-Cheol Shin,
Sung Ho Jung,
Yang Hyun Cho,
Jin Oh Choi

Calla

15:40 -
17:10

Chairpersons

Tomoko Ishizu,
Duk-Hyun Kang

Eng Heart Failure 4**Heart Transplantation 2019**

- 15:40 - 15:55 **Marginal Recipient / Donor Selection - Challenging Donor Call Cases**
Sang Eun Lee / Ulsan Univ., Korea
- 15:55 - 16:10 **Desensitization Therapy - Approach to Highly Sensitized Patient**
Jaewon Oh / Yonsei Univ., Korea
- 16:10 - 16:25 **Biopsy Negative Rejection, Does It Really Exist?**
Jon A. Kobashigawa / Cedars-Sinai, USA
- 16:25 - 16:40 **Long Term Management of HTx Recipients**
Jong-Chan Youn / Catholic Univ., Korea
- 16:40 - 17:10 **Discussion**

Eng JCS-KSC Joint Session: Echocardiography**Valvular Disease, We've Overlooked**

- 15:40 - 16:00 **Aortic Valve Calcification: Mechanism and Perspective of Medical Treatment**
Jae-Kwan Song / Ulsan Univ., Korea
- 16:00 - 16:20 **Role of Advanced Echocardiography for Low-gradient Aortic Stenosis**
Masaki Izumo / St. Marianna Univ., Japan
- 16:20 - 16:40 **How to Assess Diastolic Function in Severe Valvular Heart Disease**
Kye Hun Kim / Chonnam National Univ., Korea
- 16:40 - 17:00 **Improvement in Left Ventricular Diastolic Function after Transcatheter Aortic Valve Replacement**
Hiroto Utsunomiya / Hiroshima Univ., Japan
- 17:00 - 17:10 **Discussion**

Art

15:40 -
17:10Chairpersons
김영휘, 이창하Panel
김아영, 이옥정,
정세용, 최화정

Pediatric Cardiology 2

What to Learn More for Fontan Physiology

- 15:40 - 15:55 **Echocardiographic Assessment for Single Ventricle**
윤신원 / 중앙의대
- 15:55 - 16:10 **Cardiologic Aspects for Patient Selection and Management Towards Ideal Fontan**
김여향 / 경북의대
- 16:10 - 16:25 **Surgical Huddle from the Norwood for the Fontan Completion**
양지혁 / 성균관대의대
- 16:25 - 16:40 **All the Assessment to Detect Fontan Failure**
김수진 / 건국대의대
- 16:40 - 16:55 **Update the Support and Solution for the Failing Fontan**
이상윤 / 서울의대
- 16:55 - 17:10 **Discussion**

Pine

15:40 -
17:10Chairpersons
이계한, 이병권Panel
김두상, 안예찬,
유재영, 이상욱

BESCO 2

Biomedical Engineering Society for Circulation 2

- 15:40 - 15:58 **Prediction of Ventricular Pumping Capacity Based on Electrophysiological Parameters: Simulation Study**
임기무 / 금오공과대학교
- 15:58 - 16:16 **High Fidelity Simulation of Red Blood Cell Flow with Spherical Particles through a Stenosed Microvessel**
유동현 / POSTECH
- 16:16 - 16:34 **Understanding of Coronary Steal Syndrome and Hemodynamic Change after Closure of Coronary Fistula by Using Doppler Wire and CFD Analysis**
이관용 / 가톨릭의대
- 16:34 - 16:52 **Waveform Analysis of the Similarity between Fractional Flow Reserve and Instant Wave-free Ratio**
최준혁 / 제주대의대
- 16:52 - 17:10 **Discussion**

20
Sun.

DAY 3

KSC 2019 Program

Theatre

08:40 -
10:10

Chairpersons

송재관, 정철현

Panel

박재형, 심자영,
이승현, 홍준화

Cross Specialty: Echocardiography & Cardiac Surgery

Management of Ischemic Mitral Regurgitation;
Where We Stand?

- 08:40 - 09:00 **Evaluation and Mechanism of Ischemic Mitral Regurgitation**
박성지 / 성균관대의대
- 09:00 - 09:20 **Medical Management of Ischemic Mitral Regurgitation?**
이승표 / 서울의대
- 09:20 - 09:40 **Management of Moderate Ischemic Mitral Regurgitation; Is MV Repair Needed?**
김옥성 / 성균관대의대
- 09:40 - 10:00 **Management of Severe Ischemic Mitral Regurgitation (Repair vs. Replacement)**
윤영남 / 연세의대
- 10:00 - 10:10 **Discussion**

Grand 4

08:40 -
10:10

Chairpersons

정익모, 박현영

Panel

강시혁, 권호장,
김창수, 나백주

Healthcare Policy 1

미세먼지, 심혈관질환에 미치는 영향 및 개선 대책

- 08:40 - 09:00 **미세먼지가 심뇌혈관질환 및 부정맥에 미치는 효과**
김원 / 경희대의대
- 09:00 - 09:20 **미세먼지가 국민건강에 미치는 영향**
홍윤철 / 서울의대
- 09:20 - 09:40 **우리나라 미세먼지 저감대책은? 일본, 중국 소개**
김순태 / 아주대학교
- 09:40 - 10:10 **Discussion**

Walker 1

08:40 -
10:10

Chairpersons

Dong Jin Oh,
Gyo Seung Hwang,
Dae Hyeok Kim

Panel

Ji Eun Ban,
Dae-Hee Shin,
Nam Sik Yoon,
Sang Jin Han

Walker 2

08:40 -
10:10

Chairpersons

김종성, 임도선

Panel

김중선, 박덕우,
방오영, 서정원,
이준, 이진수,
장준영, 정영훈

Eng Arrhythmia 5

Syncope and Sudden Cardiac Death

- 08:40 - 08:48 **How to Manage Patients with Syncope?**
Jin-Bae Kim / Kyung Hee Univ., Korea
- 08:48 - 09:03 **Key Note Lecture: State-of-art: Inherited Arrhythmia Predisposing to Sudden Cardiac Death**
Takeshi Aiba / National Cerebral and Cardiovascular Center, Japan
- 09:03 - 09:11 **Genetic Basis of Lethal Cardiac Arrhythmia**
Jong-Il Choi / Korea Univ., Korea
- 09:11 - 09:19 **Update in Long QT Syndrome**
Jinhee Ahn / Pusan National Univ., Korea
- 09:19 - 09:27 **Update in Brugada Syndrome**
Yae Min Park / Gachon Univ., Korea
- 09:27 - 09:35 **Education (Eg. Daily Activity, Driving etc) for Patients with SCD & ICD**
Min Soo Cho / Ulsan Univ., Korea
- 09:35 - 09:45 **Disabled? or Physically Challenged? In Patients with SCD & ICD**
Dae In Lee / Chungbuk National Univ., Korea
- 09:45 - 09:55 **Policy of Support Rare Diseases**
Yunjin Ahn / KCDC, Korea
- 09:55 - 10:10 **Discussion**

*KCDC(Korea Centers for Disease Control & Prevention): 질병관리본부

Cross Specialty: Neurology & Intervention

What We Know? What We Don't Know

- 08:40 - 08:55 **Most Catastrophic Complication during Invasive Catheterization: Iatrogenic Stroke - How To Rescue?**
장준영 / 울산의대
- 08:55 - 09:02 **Discussion**
- 09:02 - 09:17 **Intra-arterial Treatment (Thrombolysis and Thrombectomy) for Acute Ischemic Stroke: What Are Evolving?**
이진수 / 아주의대
- 09:17 - 09:24 **Discussion**

Cosmos

08:40 -
10:10Chairpersons
최동훈, 채인호Panel
김원장, 민필기,
장기욱

- 09:24 - 09:39 **Contemporary Trends of Antiplatelet Therapy After Ischemic Stroke - Aspirin, Clopidogrel, and More**
이준 / 영남의대
- 09:39 - 09:46 **Discussion**
- 09:46 - 10:01 **Indication of LAA and PFO Closure: Neurologist View as Gate-Keeper**
방오영 / 성균관대의대
- 10:01 - 10:08 **Discussion**

Education Workshop 1: Intervention

The Role of Interventional Therapy Non-Coronary Artery Disease

- 08:40 - 09:00 **Interventional Therapy for Carotid Artery Disease**
이재환 / 충남의대
- 09:00 - 09:20 **Interventional Therapy for Abdominal Aortic Aneurysm**
김주한 / 전남의대
- 09:20 - 09:40 **Interventional Therapy for Femoral Artery Diseases**
강웅철 / 가천의대
- 09:40 - 10:00 **Interventional Therapy for Critical Limb Ischemia (BTK)**
이승환 / 울산의대
- 10:00 - 10:10 **Discussion**

Calla

08:40 -
10:10Chairpersons
신길자, 윤호중Panel
김학진, 손일석,
이윤규, 정우백

Cardio-Oncology 1

All About the Cardiotoxicity

- 08:40 - 08:55 **Types and Pathogenesis of Cardiotoxicity**
임주한 / 인하의대
- 08:55 - 09:10 **Screening and Monitoring of Cardiotoxicity**
윤현주 / 전남의대
- 09:10 - 09:25 **Risk Factors and Prevention of Cardiotoxicity**
김은경 / 성균관대의대
- 09:25 - 09:40 **Treatment of Cardiotoxicity**
이주희 / 충북의대
- 09:40 - 10:10 **Discussion**

Art

08:40 -
10:10Chairpersons
정조원, 정해역Panel
고훈, 김대희,
이상현, 황지원

Pine

08:40 -
09:40Chairpersons
박창규, 편옥범Panel
신진호, 유승기,
정육진, 조은주

Adult Congenital Heart Disease 1

Pulmonary Hypertension in Adult Congenital Heart Disease

- 08:40 - 08:48 **Pulmonary Hypertension with Significant Left to Right Shunt: How to Treat**
백재숙 / 울산의대
- 08:48 - 09:03 **Treatment of Eisenmenger Syndrome in Adult**
장소익 / 세종병원
- 09:03 - 09:11 **Pulmonary Thromboembolism in ACHD**
박정량 / 경상대의대
- 09:11 - 09:19 **Combined Pre- and Post-capillary Pulmonary Hypertension in ACHD**
김형관 / 서울의대
- 09:19 - 09:27 **Differential Diagnosis of Pulmonary Hypertension in ADHD: Multiple Comorbidity Condition**
장성아 / 성균관대의대
- 09:55 - 10:10 **Discussion**

Hypertension 1

Debate: Start with Single Pill Combination

- 08:40 - 08:55 **Cons: Not so Fast. It Is Not for Everyone**
박성하 / 연세의대
- 08:55 - 09:10 **Importance of Out-of-office BP Measurement**
이해영 / 서울의대
- 09:10 - 09:15 **Rebuttal**
박성하 / 연세의대
- 09:15 - 09:20 **Rebuttal**
이해영 / 서울의대
- 09:20 - 09:40 **Discussion**

Theatre

10:20 -
11:50

Chairpersons

Young Jo Kim,
Dong Ju Choi

Panel

Eung Ju Kim,
Jong-Chan Youn,
Jin-Ok Jeong,
Seonghoon Choi,
Eui-Young Choi

Eng New Frontiers in Cardiology 3

Plenary Lecture in Heart Failure

- 10:20 - 10:40 **The Past, Present and Future of HF Medical Treatment**
Barry Greenberg / Univ. of California San Diego, USA
- 10:40 - 11:00 **The Past, Present and Future of CRT**
Eugene S. Chung / The Christ Hospital, USA
- 11:00 - 11:20 **The Past, Present and Future of Heart Transplantation**
Jon A. Kobashigawa / Cedars-Sinai, USA
- 11:20 - 11:50 **Discussion**

Grand 4

10:20 -
11:50

Chairpersons

서홍석, 김철

Panel

김장영, 박기수,
이종영, 이찬주

Healthcare Policy 2

심장재활과 2차 예방

- 10:20 - 10:40 **심장재활은 경제적인가?**
안정훈 / 이화여자대학교
- 10:40 - 11:00 **심장재활의 2차예방적 가치와 주요 구성요소**
정익모 / 이화의대
- 11:00 - 11:20 **Role of Cardiac Rehabilitation Program in the Era of Statins and PCI**
성지동 / 성균관대의대
- 11:20 - 11:50 **Discussion**

Walker 1

10:20 -
11:50

Chairpersons

최기준, 조용근,
김대경

Essence Arrhythmia 6

Current Practice and Future Perspective in Cardiac Arrhythmia

- 10:20 - 10:35 **How to Apply Korean AF Guideline in Current Practice?**
이정명 / 연세의대
- 10:35 - 10:50 **How to Apply Korean Syncope Guideline in Current Practice?**
신동금 / 한림의대

Walker 2

10:20 -
11:50

Chairpersons

홍택중, 허승호

Panel

권기환, 김수홍,
안성균, 오석규,
조진만, 최유정

- 10:50 - 11:05 **How to Apply Korean VT Guideline in Current Practice?**
노승영 / 동국대의대
- 11:05 - 11:20 **How to Apply Device Guideline in Current Practice?**
박상원 / 세종병원
- 11:20 - 11:35 **How to Apply Korean Anticoagulation Guideline for AF Patients with PCI?**
황유미 / 가톨릭의대
- 11:35 - 11:50 **Artificial Intelligence, Machine Learning and Big Data in Arrhythmia**
박준범 / 이화의대

Intervention 3

My Secret Tips as an Interventional Cardiologist

- 10:20 - 10:30 **How to Explain and Persuade My Procedures to Patients and Their Family**
연태진 / 서울의대
- 10:30 - 10:40 **My Personal Tips on Guiding Catheter Engagement and 0.014 Wire Tip Forming for CTO PCI**
전국진 / 부산의대
- 10:40 - 10:50 **My Special Techniques and Tricks with Bifurcation Intervention**
이성윤 / 인제의대
- 10:50 - 11:00 **How Can I Protect Myself from the Various Hazard: Radiation, Back/Shoulder Pain...**
나승운 / 고려의대
- 11:00 - 11:20 **Discussion**

Cosmos

10:20 -
11:50Chairpersons
임세중, 박승우Panel
김은경, 박찬석

Education Workshop 2: Echocardiography

Echocardiography in Adult Congenital Heart Diseases

- 10:20 - 10:40 **Atrial Septal Defect**
이미래 / 성균관대의대
- 10:40 - 11:00 **Tetralogy of Fallot / Ventricular Septal Defect**
박준빈 / 서울의대
- 11:00 - 11:20 **Ebstein Anomaly**
김미정 / 가톨릭대의대
- 11:20 - 11:40 **Patent Ductus Arteriosus**
선병주 / 충남의대
- 11:40 - 11:50 **Discussion**

Calla

10:20 -
11:50Chairpersons
민창기, 한성우Panel
강은주, 조은정,
조인정

Cardio-Oncology 2

Collaboration of Cardiology and Hemato-Oncology

- 10:20 - 10:35 **Malignant Cardiac Tumor**
정혜문 / 경희대의대
- 10:35 - 10:50 **Arterial and Pulmonary Hypertension in Cancer Patients**
서정숙 / 안제의대
- 10:50 - 11:05 **Cancer VTE and Anticoagulation: Evidence from Clinical Trials**
방수미 / 서울의대
- 11:05 - 11:20 **Arrhythmia in Cancer Patients**
이성호 / 성균관대의대
- 11:20 - 11:50 **Discussion**

Art

10:20 -
11:50Chairpersons
허준, 김계훈Panel
김지나, 서혜선,
임경희, 최은영

Adult Congenital Heart Disease 2

How Manage Cardiovascular Disease in Pregnant Women

- 10:20 - 10:35 **Hemodynamic Changes during Pregnancy**
박성지 / 성균관대의대
- 10:35 - 10:50 **Risk Assessment and Familial Consultation before Pregnancy**
은영민 / 연세의대

Pine

10:20 -
11:50Chairpersons
김순길, 김명아Panel
손일석, 임상현,
진선아

Theatre

12:00 -
12:40Chairpersons
전은석, 최동훈

- 10:50 - 11:05 **Prosthetic Valve in Pregnant Women**
박재형 / 충남의대
- 11:05 - 11:20 **Pregnant Women with Pulmonary Hypertension**
최정현 / 부산의대
- 11:20 - 11:35 **Management of Arrhythmia in Pregnant Women**
염재선 / 연세의대
- 11:35 - 11:50 **Discussion**

Hypertension 2

How to Improve Hypertension Control

- 10:20 - 10:35 **Control Rate of Hypertension: Korea vs. World**
김현창 / 연세의대
- 10:35 - 10:50 **Patient's Adherence**
나진오 / 고려의대
- 10:50 - 11:05 **Physician's Inertia**
조경임 / 고신대의대
- 11:05 - 11:20 **Healthcare System Issue**
김대희 / 울산의대
- 11:20 - 11:40 **Discussion**

Scientific Session [Novartis]

Lastest Update for Heart Failure Treatment with ARNI

- 12:00 - 12:40 **Comprehensive Positioning of Entresto in Optimizing Patient Outcomes**
Barry Greenberg / Univ. of California San Diego, USA

Walker 1

12:00 -
12:40Chairpersons
최동주, 강석민

Scientific Session [Daewoong/Daiichisankyo]

Effective Statin Treatment Strategy in Korean Population

- 12:00 - 12:20 **Lower Is Better but It Matters How We Get**
박진주 / 서울의대
- 12:20 - 12:40 **A New and Powerful Solution for Dyslipidemia in Hypertension**
성지동 / 성균관대의대

Cosmos

12:00 -
12:40Chairpersons
한규록, 박승우

Scientific Session [Hanmi]

New Insight on Intensive Treatment for Hypertension and Dyslipidemia Management

- 12:00 - 12:20 **Combination Therapy of Antihypertensive Drugs for CV Protection; Amosartan Family**
손일석 / 경희의대
- 12:20 - 12:40 **The Benefits of Intensive Lipid Lowering**
최성훈 / 한림의대

Grand 4

12:30 -
13:50Chairpersons
김기식, 김한수

임상심장학연수강좌 1

최신 가이드라인 리뷰

- 12:30 - 12:50 **고혈압**
신진호 / 한양대의대
- 12:50 - 13:10 **고지혈증**
김상현 / 서울의대
- 13:10 - 13:30 **심부전**
최진오 / 성균관대의대
- 13:30 - 13:50 **Discussion**

Theatre

14:00 -
15:30Chairpersons
김기식, 박성욱Panel
김남호, 남기병,
조용근

Grand 4

14:00 -
15:30Chairpersons
최기준, 두영철

Walker 1

14:00 -
15:30Chairpersons
정명호, 백상홍Panel
강현재, 권기환,
김원, 박상호,
배장환, 한승환

Ethics Workshop

의사가 알아야 할 최신윤리

- 14:00 - 14:25 최신 사례를 통해 본 의료기관-제약회사/기기회사 윤리 지침
- 청탁금지법 시행 이후
조건미 / 서울아산병원 법무팀
- 14:25 - 14:30 **Discussion**
- 14:30 - 14:55 **의사윤리지침의 법적해석**
박형욱 / 단국대의대
- 14:55 - 15:00 **Discussion**
- 15:00 - 15:25 **변화하는 연구출판윤리**
한동수 / 한양대의대, 의학학술지편집인협회의 출판윤리위원장
- 15:25 - 15:30 **Discussion**

임상심장학연수강좌 2

Hot Issues in 2019 - 부정맥

- 14:00 - 14:20 **개원가에서 조절 가능하거나 추적 검사가 필요한 심방세동의 위험인자**
최익근 / 서울의대
- 14:20 - 14:40 **심방세동 우리나라 최신 진료지침**
정보영 / 연세의대
- 14:40 - 15:00 **PVC: Benign vs. Malignant 어떻게 구별하고 치료하나?**
박경민 / 성균관대의대
- 15:00 - 15:20 **개원가에서 할 수 있는 급사의 예방**
최종일 / 고려의대
- 15:20 - 15:30 **Discussion**

Cross Specialty: Acute Myocardial Infarction & Basic Research

Myocardial Damage and Salvage Strategies

- 14:00 - 14:15 **Influence of Microvascular Damage in Target Vascular Territory on IMR and FFR in Non-target Vessel Territories Using a Porcine Microvascular Injury Model**
김현국 / 조선의대

- 14:15 - 14:30 **Multitarget Strategies to Reduce Myocardial Ischemia/Reperfusion Injury**
윤창환 / 서울의대
- 14:30 - 14:45 **Potential Role of iPS in Acute Myocardial Infarction**
권유욱 / 서울의대
- 14:45 - 15:00 **Infarcted Myocardium-Primed Dendritic Cells Improve Remodeling and Cardiac Function after Myocardial Infarction by Modulating the Treg and Macrophage Polarization**
장기욱 / 가톨릭의대
- 15:00 - 15:30 **Discussion**

Walker 2**14:00 - 15:30****Chairpersons**
임도선, 안영근**Panel**
강웅철, 김준홍,
신은석, 이중희,
이현중, 최의영**Intervention 4****Structural Heart Intervention: Who Are Appropriate Candidates?**

- 14:00 - 14:20 **TAVR; Updated Indication and Evidence**
박덕우 / 울산의대
- 14:20 - 14:40 **LAAO: Who Is Beneficial in AF?**
김중선 / 연세의대
- 14:40 - 15:00 **PFO: How to Find Out An Candidate to Close?**
박재형 / 고대의대
- 15:00 - 15:20 **Is All ASD Needs to Be Closed?**
김주한 / 전남의대
- 15:20 - 15:30 **Discussion**

Cosmos**14:00 - 15:30****Chairpersons**
오용석, 곽충환**Panel**
김태훈, 신동금,
차명진**Education Workshop 3: Arrhythmia****Current Practice in Management of AF**

- 14:00 - 14:20 **Update in Rhythm and Rate Control**
오일영 / 서울의대
- 14:20 - 14:40 **Clinical Outcome of Catheter Ablation**
김준 / 울산의대
- 14:40 - 15:00 **SPAF: Oral Anticoagulation**
이정명 / 경희의대

Calla**14:00 - 15:30****Chairpersons**
김동수, 박태호**Panel**
김장영, 박성미,
손장원**Art****14:00 - 15:30****Chairpersons**
Hyoung Doo Lee,
Woong-Han Kim**Panel**
Geena Kim,
Chun Soo Park,
Jinyoung Song,
So Ick Jang

- 15:00 - 15:20 **SPAF: Nonpharmacological Stroke Prevention**
신승용 / 중앙의대
- 15:20 - 15:30 **Discussion**

Echocardiography 6**Role of Multimodality Imaging in Various Disease**

- 14:00 - 14:20 **In Patients with Infective Endocarditis**
김대희 / 울산의대
- 14:20 - 14:40 **In Patients with Cardiovascular Involvement of Connctive Tissue Disease**
허란 / 한양의대
- 14:40 - 15:00 **In Patients with Aorta Disease**
박준빈 / 서울의대
- 15:00 - 15:20 **In Patients with Pericardial Disease**
장성아 / 성균관대의대
- 15:20 - 15:30 **Discussion**

Eng Pediatric Cardiology 3**Save the Aorta**

- 14:00 - 14:15 **Pathology of Coarctation of the Aorta**
Jung Sun Kim / Sungkyunkwan Univ., Korea
- 14:15 - 14:30 **Imaging for Coarctation of the Aorta**
Ki-Sung Kim / Kanagawa Children's Medical Center, Japan
- 14:30 - 14:45 **How to Manage Complex Coarctation**
Tae-Jin Yun / Ulsan Univ., Korea
- 14:45 - 15:00 **Fetal Diagnosis for Coarctation of the Aorta**
Ki-Sung Kim / Kanagawa Children's Medical Center, Japan
- 15:00 - 15:15 **Mid-Aortic Syndrome**
Gi Beom Kim / Seoul National Univ., Korea
- 15:15 - 15:30 **Discussion**

Pine

Healthcare Policy 3

14:00 -
15:30

신포괄수가제 관련

14:00 - 14:30 DRG란 무엇인가?

김석일 / 가톨릭의대

14:30 - 15:00 신포괄수가제 시행에 따른 현황 및 문제점

최성훈 / 한림의대

15:00 - 15:30 Discussion

Chairperson
오동진Panel
김병욱, 신상훈,
정미향, 최병용

Oak

의료정보 세션

14:00 -
15:30

빅데이터를 임상에 어떻게 활용할 것인가?

14:00 - 14:15 우리나라 빅데이터의 활용방안

강시혁 / 서울의대

14:15 - 14:30 Proceed with Caution When Using Real World Data

김한성 / 가톨릭대학교

14:30 - 14:50 Clinical Research Guide Using Health Care Big Data (Claim Data)

경대성 / 한미약품

14:50 - 15:10 빅데이터 임상활용, 어떻게 하면 잘 할 수 있나?

정재훈 / 가천의대

15:10 - 15:30 Discussion

Chairpersons
강대철, 정욱진Panel
나진오, 조현재,
최진오

Grand 4

임상심장학연수강좌 3

15:40 -
17:10

개원의가 알아야 할 최근 임상연구 리뷰

15:40 - 16:00 고혈압

성지동 / 성균관대의대

16:00 - 16:20 최근의 지질수치의 조절을 통한 심혈관질환의 예방여부를
증명한 연구들

한기훈 / 울산의대

16:20 - 16:40 심부전

박성미 / 고려의대

16:40 - 17:00 허혈성 심질환

조진만 / 경희의대

17:00 - 17:10 Discussion

Chairpersons
권현철, 류재춘

Walker 1

15:40 -
17:10Chairpersons
김유호, 김영훈,
오세일Panel
김윤기, 배명환,
임우현

Arrhythmia 7

CIED Summit

15:40 - 15:55 Key Note Lecture: State-of-art: Past, Current &
Future of Device Therapy in Cardiac Arrhythmias

이만영 / 가톨릭의대

15:55 - 16:03 How to Prevent & Manage CIED Infection

이영수 / 대구가톨릭의대

16:03 - 16:11 Update of CRT

신승용 / 중앙의대

16:11 - 16:19 Update of Subcutaneous ICD

유희태 / 연세의대

16:19 - 16:27 Periprocedural Anticoagulation during Cardiac
Electronic Device Implantation

박종성 / 동아의대

16:27 - 16:35 Update of ICD

박형욱 / 전남의대

16:35 - 16:43 Update of Lead Extraction

박승정 / 성균관의대

16:43 - 16:51 His Pacing, Leadless Pacemaker, Remote
Monitoring

성정훈 / 차의대

16:51 - 17:10 Discussion

Walker 2

15:40 -
17:10Chairpersons
박성욱, 김무현

Intervention 5

'How to' Issues in Antithrombotic Treatment

15:40 - 16:00 How to Select Optimal NOAC in AF Patients
Undergoing PCI?

- Rivaroxaban vs. Dabigatran vs. Apixaban

배장환 / 충북의대

16:00 - 16:20 How to Manage Blood Thinners during Procedure
or Surgery?- Antiplatelet or Anticoagulant for Primary and
Secondary Prevention

안성균 / 연세원주의대

16:20 - 16:40 How to Choose Optimal Blood Thinner after
Structural Cardiovascular Intervention?

박덕우 / 울산의대

Cosmos

15:40 -
17:10Chairpersons
최동주, 강석민Panel
김응주, 박재형,
오재원

Calla

15:40 -
17:10Chairpersons
주승재, 임세중Panel
김다래, 김미정,
윤세정

- 16:40 - 17:00 **How to Adjust Blood Thinners in Patients with Old Age or CKD?**
- Dose or Regimen Adjustment According to CrCl vs. GFR
김원 / 경희의대
- 17:00 - 17:10 **Discussion**

Education Workshop 4: Heart Failure

Management of Acute Heart Failure

- 15:40 - 16:00 **Swan-Ganz Catheterization: Role in Acute Heart Failure**
양정훈 / 성균관대의대
- 16:00 - 16:20 **ARNI: Recent Updates**
박진주 / 서울의대
- 16:20 - 16:40 **Inotropes in Acute Heart Failure**
전웅 / 순천향의대
- 16:40 - 17:00 **Monitoring of ECMO in Cardiogenic Shock**
김민석 / 울산의대
- 17:00 - 17:10 **Discussion**

Echocardiography 7

Interesting Imaging Cases from Percutaneous Procedures

- 15:40 - 15:55 **TAVR**
홍그루 / 연세의대
- 15:55 - 16:10 **LAA Occlusion**
조동혁 / 고려의대
- 16:10 - 16:25 **ASD or PFO Device Closure**
정조원 / 연세의대
- 16:25 - 16:40 **Paravalvular Leakage Closure**
이승아 / 울산의대
- 16:40 - 17:10 **Discussion**

Art

15:40 -
17:10Chairpersons
Nam Su Kim,
Myung Chul HyunPanel
Ji Eun Ban,
Ja Kyeong Yun,
Kee Soo Ha,
Mi Young Han

Pine

15:40 -
17:10Chairpersons
송재관, 김용진

Eng Pediatric Cardiology 4

Inherited Cardiac Diseases and More

- 15:40 - 15:55 **Congenital Mitral Valve Disease**
Young-Hwan Song / Seoul National Univ., Korea
- 15:55 - 16:10 **Inherited Arrhythmias Syndromes - Do We Need ICD?**
June Huh / Sungkyunkwan Univ., Korea
- 16:10 - 16:25 **Inherited Aortic Disorders**
Lucy Youngmin Eun / Yonsei Univ., Korea
- 16:25 - 16:40 **Cardiomyopathy in Children**
Jeong Jin Yoo / Ulsan Univ., Korea
- 16:40 - 16:55 **Computer Simulation and 3D Printing in the Management of Congenital Heart Disease**
Achi Ludomirsky / NYU Hassenfeld Children's Hospital, USA
- 16:55 - 17:10 **Discussion**

Healthcare Policy 4

공익적 임상연구 (대한심장학회/심장학연구재단 미래정책연구소)

- 15:40 - 15:55 **진료현장 자료를 활용한 의료기술 재평가 연구 사례 - 중재 분야**
한주용 / 성균관대의대
- 15:55 - 16:10 **의료기술최적화 연구 사례 - 부정맥 분야**
박형욱 / 전남의대
- 16:10 - 16:25 **의료기술 최적화 연구 사례 - 고혈압/심부전 분야**
박성하 / 연세의대
- 16:25 - 16:40 **의료기술 최적화 연구 사례 - 심혈관 영상 분야**
이승표 / 서울의대
- 16:40 - 17:10 **Discussion**

종근당의 첫 번째 항응고제 리퀴시아

— 평생 항응고제를 복용해야 하는 환자를 위한 선택 —



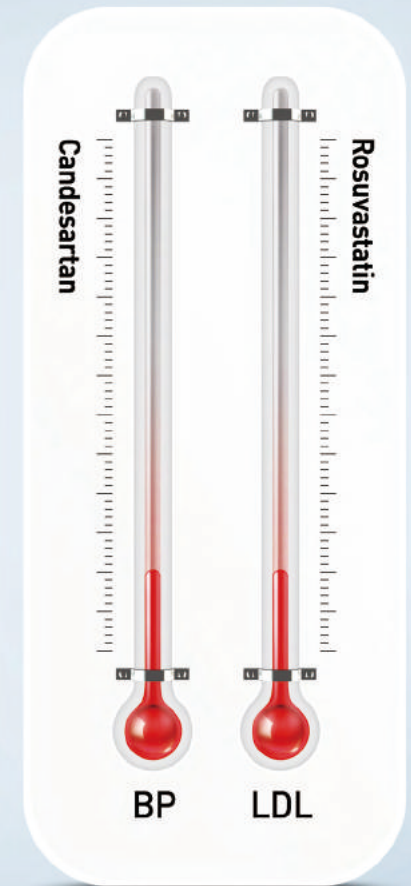
제품 요약정보

- 제품명 : 리퀴시아정®(Liquixia®)
- 함량 : 2.5mg / 5mg
- 포장규격 : 60정
- 성분명 : 아픽사반(apixaban)
- 제형 : 정제
- 약가 : 오리지널 약가의 53.55%

Original 대비
46.45%
절감



2중 작용으로
LDL-C **LOW**
BP **LOW**
로타칸



고혈압 환자 3명 중 2명은 이상지질혈증^{1,2}

로타칸은 고혈압, 이상지질혈증^{2,3} 2가지 질환을 동시에 조절하여 심혈관질환의 위험도와 약물복용으로 인한 부담을 동시에 낮춥니다

이제 로타칸 하나로 한 번에 낮추세요!



로타칸
(로수바스타틴칼슘/칸데사르탄칼슘제형)



[효능효과] 1. 고혈압 : 경도~중등도의 본태성 고혈압 2. 급성 심근경색 **[용법용량]** 식사와 무관, 매일 같은 시간에 2회에 복용할 것 권장
1. 고혈압 ① 초진환자 1일 15 mg, 평정상태 유지 1일 30 mg ② 1일 최대 60 mg → 1-2주로 나누어 먹기, 이대로 병증 호전되면 7g씩 계속
증여하며 투약한다; 증상 치료 후, 투약 2-3주 전부터 1일 30mg로 하여 1개월, 1일 15 mg로 나누어 먹기, 치료제 병증 호전 경우 1일 7.5 mg로
투여 다시 3주 중등도~중등반변환율(CCR) 45% ~ 48%, 7.5 mg으로 투여 시 투약비율 3.75 mg으로 투여 시 41 CCR (45% / min)
경도~중등도 환자는 1일 7.5 mg으로 투여 시 2배(중등도~중등반환율에서 7.5 mg으로 투여 시 3배) 중등~중등반환율은 두 배가 된다 2. 급성 심근

[illegible]

Reference
1. Subissi A, et al.: *Cardiovasc Drug Rev* 1999; 17 (2): 115-133
2. Borghi C, et al.: *Clin Cardiol* 2012; 35 (7): 416-423

서울시 강남구 삼성동 142-35 선담빌딩 12층 TEL : 02-2037-7300 FAX : 02-2037-7373

*제품에 대한 상세한 정보는 뒷면 제품설명서를 참조하시기 바랍니다.





대한심장학회 제63차 추계학술대회 The 63rd Annual Scientific Meeting of The Korean Society of Cardiology

인 쇄 2019년 10월 08일 인쇄
발 행 2019년 10월 11일 발행
주 최 대한심장학회
주 관 대한심장학회&심장학연구재단
발행처 대한심장학회
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01

이중작용 기전²

02

Metabolic Syndrome
(특히, 당뇨/고지혈증)을 동반한 환자 사용 가능³

03

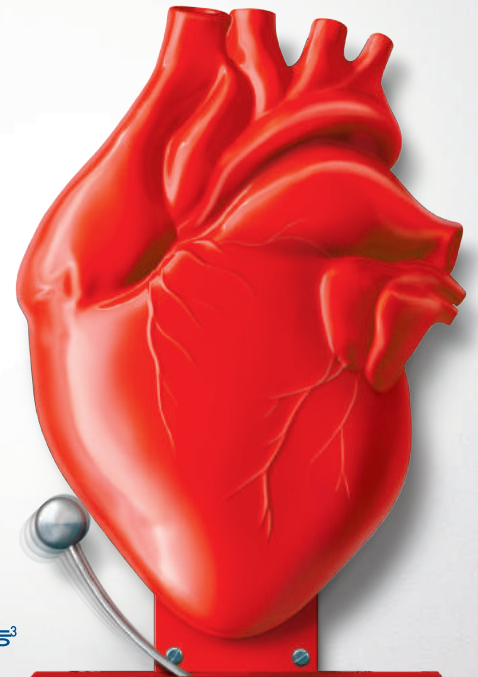
노인에게도 안전하게 사용⁴

04

고혈압 치료의 1차 약제로 추천
(2013 ESC/ESH Guidelines)⁵

05

경쟁력 있는 약가



최신의 3세대
베타차단제¹
네비레트[®]

Prescribing Information **원료약품 및 분량** : 1정 중 주성분 Nebivolol hydrochloride 5.45mg (Nebivolol로서 5mg) **성상** : 흰색의 원형 정제 **효능·효과** : 1. 본태성 고혈압 2. 만성 심부전 (경증-중증도의 만성 안정형 심부전 치료의 더불어 70세 이상 안정형의 심부전 치료) **용법·용량** : 1. 본태성 고혈압 (1) 성인 : 네비볼로로서 1일 1회 5mg을 매일 같은 시간에 경구투여한다. (2) 고령자 : 65세이상 고령자에서의 효과는 네비볼로로서 1일 1회 2.5mg이다. 필요시 1일 용량을 5mg으로 증량할 수 있다. 2. 만성 심부전 (1) 성인 : 초최소량 네비볼로로서 1일 1회 1.25mg에 경구투여한다. 증상이 필요한 경우 1일 1회 2.5mg, 필요시 5mg으로증량한다. 통상 1-2주 간격으로 증량한다. 1일 최대 복용량은 10mg이다. (2) 신부전 환자 : 경증 - 중증도의 신부전의 경우, 개입에 따라 용량조절을 하였으므로 별도의 용량조절은 필요없다. 중증의 심부전 (혈청 크레아티닌 > 250umol/L)에서는 사용경험이 없으므로, 복용을 추천하지 않는다. **사용상 주의사항** : 1. 다음 환자에게는 투여하지 말 것 : 1) 이 약에 과민증 환자 2) 기관지질환 또는 기관지천식의 병력을 가진 환자 3) 대시성 산증 환자 4) 사맥(60 bpm), 방실결속(2.35) 환자 5) 급성 심부전, 심인성 6) 또는norop적자(정맥주사)를 필요로 하는 대상부전성 심부전 환자 7) 조절되지 않는 심부전환자, 2. 다음 환자에게는 신중히 투여할 것 : 1) 만성 장애성 폐질환의 환자 2) 치료되지 않은 울혈성 심부전(CF) 환자 3) 허혈성 심부전 환자, 3. 이상반응 : 1) 과민증 2)시력손상 3) 사맥, AV유도, AV 역전지연 4) 두통, 현기증, 피로감 5. 일반적 주의 : 1) 베타-차단제의 연속적 사용은 마취유도 및 심근시의 부정에 위험성이 감소 된다. 2) 베타 이드레날린성 수용체는 사맥을 일으킬 수 있으므로 흉상부의 맥이 150-550bpm으로 떨어지거나 사맥을 일으킬 것으로 판단될 경우에는 용량을 감소시킨다. 5. 상호작용 : 1) 알콜, 칼륨제제(알리제마리움, 플루이덴제)와 Class 1 항부정맥 약제, 이디도린 3) 플루르핀 4) 디기탈리스제제와 이뇨제나 경구용 당뇨병약의 약제와 7)NSAIDs 8. 임부 및 수유부에 대한 주의 : 1) 임신중증 투여에 대한 안전성은 확립되어 있지 않다. 2) 네비레트는 인체 모유로 이행되지는 않더라도 아직까지 없으나, 동물시험에서 모유중으로의 이행이 보고되어 있으므로 수유중에는 투여하지 않는다. 7. 과량투여시 사맥, 저혈압, 기면지연, 급성심부전이 나타날 수 있다. 8. 처치 : 1) 과량투여나 과민성의 경우 항지를 참치기 보호 감독하고 혈당치를 점검한다. 2) 위장관에 남아있는 잔여물을 흡수는 위세척, 활성탄, 완하제의 투여로 치료할 수 있다. 3) 사맥이나 광범위한 미주신경완충은 아트로핀투여로 투여로 치료할 수 있다. 4) 저혈압 : 심인(1~30°C) 보온 사용기간 : 제조일로부터 36개월 **포장단위** 30정 **작성년월일** 2008. 12. 19 이가정임자 이후 변경된 내용이나 제품정보 조문은 www.menariniapac.co.kr에서 확인하실 수 있습니다. **제조원** 제조원명 : A. Menarini Industrie Farmaceutiche Riunite s.r.l. Via Sette S. 43n-50131 Firenze, Italy 제조자 : Berlin-Chemie AG Glenker Weg 125-127, Berlin, Germany **수입판매자** 한국메나리니(주) **판매처** 한국메나리니(주) 서울시 강남구 테헤란로 411 성담빌딩 12층 Tel. 02-2037-7300 www.menariniapac.co.kr

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*IMS MAT June 2014, includes all branded nebivolol trade names used globally



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