

# 2019년 대한흉부심장혈관외과학회 제51차 추계학술대회

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장소 • 창원 컨벤션센터(CECO)

● ——— ● ———  
*"Rise Again!"*

## Program Book

# 대한흉부심장혈관외과학회 제51차 추계학술대회

The 51<sup>st</sup> Annual Meeting of the Korean Society for Thoracic and Cardiovascular Surgery (KTCVS)

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## 대한흉부심장혈관외과학회 제51차 추계학술대회

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### 인사말

사랑하는 대한흉부심장혈관외과학회 회원 여러분!

장마, 폭염, 열대야, 태풍을 이겨내고 민족의 명절 한가위를 지나니 바야흐로 천고마비, 수확의 계절을 맞이하게 되었습니다.

2019년 새해가 엇그제 같은데 정신 없이 바쁘게 달려오다 보니 벌써 한 해를 마무리하는 10월 학술대회가 이제 한 달여 앞으로 다가왔습니다.

작년 추계학술대회는 학회 창립 50 주년을 기념하는 의미에서 대외적인 기념 행사와 국제학회 등이 함께 진행되었습니다.

올해 제51차 추계학술대회는 "Rise Again!"이라는 슬로건으로 좀더 내실 있는 행사가 되도록 준비하고 있고, 특별히 창원시에서 개최할 예정입니다.

창원에는 삼성창원병원, 창원경상대병원, 창원파티마병원, 한마음병원 등 왕성한 학회 활동을 하는 회원 근무 병원들도 다수 존재하고 있습니다.

창원은 인구 100만이 넘는 우리나라 최초의 통합 도시로서 저탄소 녹색 성장을 선도 하며 산업과 환경이 공존하는 아름다운 명품 도시입니다. 대한민국 민주화의 메카 마산의 역사, 아름다운 해양 경관을 갖춘 진해, 산업과 문화가 함께 공존하는 창원시는 다채로운 매력을 가진 관광도시로 거듭나고 있습니다.

학회 첫째 날에는 올해부터 일본흉부외과학회(JATS)와의 교류를 추계학회에서 정례화하기로 하고 내년부터는 한일 조인트 세션 마련 등 구체화하기로 하였습니다. 올해는 일본흉부외과학회 회장인 Okita 선생님의 기념 강의를 있으며 이어서 양국간의 MOU 조인식을 할 것입니다. 우리 회장단 역시 이번 일본흉부외과학회에 같은 계획으로 초대받고 참석해서 양 학회의 교류를 공고히 다질 계획입니다.

둘째 날에는 의협에서 요구하는 필수과목교육 연수교육을 학회 차원에서 준비하여 올해는 흉부외과의사로서 관심 있는 교육으로 마련하고 필수평점을 이수하실 수 있도록 하였습니다. 지도전문의 교육을 이수하셔야 하는 회원께서는 이날 병행되는 교육을 받으실 수 있습니다.

마지막 셋째 날에는 작년 50주년을 기념하며 시작한 Meet the Expert Session을 올해도 세분의 Expert를 모시고 진행하게 되었습니다. 예년에 비해 많은 초록이 접수된 관계로 모든 회원분께 발표기회를 드리지 못한 점이 아쉽습니다만 학술위원들이 좀 더 수준 높은 초록을 엄선하기 위해 그 어느 때 보다 노력하였고 내실 있는 학회가 되도록 프로그램을 마련하였습니다.

최근 이슈가 되고 있는 TAVR 에 대한 논의 시간과 중국의 Tan 선생님의 식도수술의 경험은 매우 유익한 시간이 될 것이고 확신합니다.

올해 역사기록전시회 또한 회원 여러분의 자긍심을 높이는 귀중한 자료가 선보일 예정입니다.

꾸준히 학회 원로 회원님들이 학회 기간 중에 편하게 활용하실 수 있는 독립 공간인 시니어라운지를 운용할 계획 이오니 원로회원님 및 회원 여러분의 많은 참여를 부탁드립니다. 아울러 미래의 주역인 전공의들을 위한 편의 시설도 고려하여 전국의 전공의 상호간의 교류 증진 외에도 대한민국 흉부외과 전 세대가 함께 어울릴 수 있도록 최선을 다하겠습니다.

이번 추계학술대회는 창원시에서 적극적으로 협조하여 회원과 가족 여러분들에게 시티투어버스 무상제공, 각종 볼거리, 먹거리, 즐길 거리에 대한 다양한 정보를 제공하고 지원할 예정입니다.

끊임없이 국민건강수호의 최 첨병에서 생명과 보건 향상을 위하여 온몸과 마음을 다 바쳐 수고하시는 대한흉부심장혈관외과 회원분들에게 경의를 표합니다. 그 감사와 존경의 마음을 담아 학술위원회 주관으로 정성껏 준비한 우리 가을 학술대회에 큰 관심과 참여로 하나되어 주시기를 간절히 부탁드립니다. 최선을 다하여 준비하여 회원님들을 맞이하겠습니다.

감사합니다.

대한흉부심장혈관외과학회 학술위원장 **지현근**

대한흉부심장혈관외과학회 이사장 **오택윤**

대한흉부심장혈관외과학회 회장 **권오춘**



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## 대한흉부심장혈관외과학회 임원명단 (2018년 11월 ~ 2019년 10월)

회 장	권오춘
차 기 회 장	김진국
부 회 장	나명훈, 나찬영, 백희중, 원용순, 홍종면
이 사 장	오태운
차기이사장	김웅한
상 임 이 사	김관민, 김동관, 김성철, 나국주, 유경중, 윤정섭, 이현석, 전태국, 정성운, 홍윤주

### 이 사

강신광, 강정한, 강창현, 강철휘, 금동윤, 김경화, 김경환, 김관민, 김관창, 김근직, 김대연, 김대준, 김대현, 김도형, 김동관, 김동원, 김문수, 김상필, 김성철, 김수철, 김시욱, 김영태, 김용환, 김육성, 김재범, 김재현, 김정철, 김정택, 김종인, 김준석, 김태식, 김현구, 김형수, 나국주, 류대웅, 류세민, 류한영, 문석환, 문현중, 민호기, 박계현, 박기성, 박영우, 박일환, 박창률, 박철현, 변정훈, 서종희, 서홍주, 손호성, 송상윤, 송 현, 신성호, 신윤철, 신재승, 신화균, 유경중, 유동곤, 유재욱, 유재현, 유지훈, 윤영남, 윤정섭, 윤태진, 이석재, 이성수, 이성호, 이웅배, 이장훈, 이재익, 이재훈, 이종호, 이창하, 이현석, 이호석, 이 건, 이 철, 임상현, 임 청, 장인석, 장지원, 장효준, 전태국, 정성운, 정인석, 정진용, 제형곤, 조광리, 조광조, 조덕곤, 조현민, 주석중, 지현근, 최성실, 최용수, 최진호, 최창휴, 한일용, 허동명, 허 진, 홍기표, 홍윤주, 홍준화, 황상원

총 무 이 사 윤효철, 강민웅(부 총무이사), 신흥주(부 총무이사)

감 사 류지윤, 김덕실, 허재학

<b>기획홍보위원회</b>	신재승(장), 강정환, 김도완, 김도훈, 김환욱, 송승환, 신성호, 신흥주, 유재석, 이승현, 임상현, 임홍국, 임 청, 정인석, 조양현
<b>간행위원회</b>	조광조(장), 강신광, 김경환, 김관창, 김대준, 박기성, 박한기, 백만중, 송석원, 윤태진, 이 삭, 이성호, 이호석, 최시영, 최용수, 홍기표, 홍종면, 황재준, Dr. Andras Szasz, Dr. Antonio B. Ramos, Dr. Arata Murakami, Dr. Byung C. Moon, Dr. Calvin Sze Hang Ng, Dr. Francis D. Ferdinand, Dr. Francisco A. Arabia, Dr. Gerardo AO. Carillo, Dr. Hammoumi Mohammed Massine, Dr. Hassan Abdullah Alqumber, Dr. Hendrick E. Barner, Dr. Jahanzaib Idrees, Dr. Kemp H. Kernstine, Dr. Marcello Carlo Ambrogi, Dr. Mark S. Allen, Dr. Mong-Wei Lin, Dr. Padungkiat Tangpiroontham, Dr. Peter J. Oberwalder, Dr. Takashi Nishimura, Dr. Thomas W. Rice, Dr. Tirone E. David, Dr. Tom R. Karl, Dr. Nguyen Truong Giang
<b>고시위원회</b>	김경환(장), 김도훈, 김재범, 김형렬, 김형태, 김홍관, 박인규, 박정준, 신유림, 신흥주, 안효영, 양지혁, 위진홍, 유재석, 이재항, 이진구, 이충원, 임주영, 임 청, 최창휴, 황수경
<b>교육위원회</b>	박계현(장), 공준혁, 금동윤, 김근직, 김동중, 김정철, 김준범, 박성용, 이길수, 이성수, 이재항, 이 철, 장성욱, 장우성, 전재현, 정인석, 조민섭, 조석기, 조성규, 조양현, 조정수, 최은석, 황진욱
<b>보험위원회</b>	문석환(장), 곽재건, 김대현, 김시호, 김영두, 박남희, 박인규, 박천수, 신성호, 신윤철, 양지혁, 오상기, 윤영남, 이영욱, 이재익, 이진구, 이해원, 임상현, 장희진, 정동섭, 정성호, 정원석, 정재승, 조종호, 조창욱, 조현민, 최시영, 허 균, 홍순창, 황정주
<b>수련심사위원회</b>	김동원(장), 강두영, 강준규, 김동중, 김시욱, 김영대, 김재현, 김준석, 류경민, 박성준, 송상윤, 윤영남, 윤유상, 이석재, 이응배, 장인석, 장지원, 조석기, 최진호
<b>재정위원회</b>	박철현(장), 강정환, 김경화, 김상필, 김성철, 배지훈, 유재욱, 이기종, 이석기, 이 섭, 이희성, 전현우, 조종호, 최재성
<b>학술위원회</b>	지현근(장), 강민웅, 강창현, 곽재건, 김재범, 김정철, 김준성, 김현구, 김호진, 박한기, 서종희, 성기익, 성용원, 양지혁, 이 삭, 이창하, 제형근, 조광리, 최세훈, 최용수, 최재성, 함석진, 황호영
<b>국제교류위원회</b>	이응배(장), 김옥성, 김준범, 배미경, 성용원, 장우성
<b>정보위원회</b>	최창휴(장), 강준규, 염상윤, 오세진, 이석기, 이송암
<b>정책윤리위원회</b>	금동윤(장), 권오춘, 김덕실, 김요한, 김 혁, 문병주, 박승일, 윤정섭, 윤치순, 전상훈, 정성운, 정태은, 홍종면



## 특별위원회 / TFT

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<b>역사기록보존위원회</b>	박국양(장), 김정수, 김근직, 김도훈, 김 석, 김우식, 신재승, 이성수, 이호석, 이석재, 정한나, 조덕곤, 최재웅 고문: 김상형, 이상호, 장병철
<b>법인설립위원회</b>	이석재(장), 김형렬, 박남희, 성기익, 이 철, 이해영 고문: 권오춘, 박승일, 박영환, 이영탁, 전상훈
<b>사회공헌/의료봉사위원회</b>	김웅한(장), 곽재건, 김동중, 김정철, 박천수, 오세진, 유재석, 이승현, 장우성, 정의석, 조성규, 최광호, 최세훈
<b>노인병세부전문의준비위원회</b>	이석재(장)(장)
<b>임상진료지침구축위원회</b>	조덕곤(장), 김홍관, 윤정섭, 이근동, 이 철
<b>대외협력위원회</b>	문현종(장), 김준성, 김재준, 박재범, 박창률, 박천수
<b>요양병원 TFT</b>	김수철(장), 김승진, 김우식, 김욱진, 김창희, 박강식, 이재훈, 이필수, 한균인
<b>초음파 위원회</b>	정진용(장), 김도완, 김동중, 김우식, 김재범, 김태식, 이석인, 이 섭, 이충원, 이현주, 임주영, 장용진, 장형우, 최창휴, 홍기표
<b>가산금 TFT</b>	임상현(장), 김시호, 김영삼, 김우식, 백종현, 송상윤, 신윤철, 유지훈, 이재욱, 조민섭, 조석기, 최세훈 고문: 김동관, 류지윤, 박철현, 백완기





2019년 10월  
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창원 컨벤션센터 (CECO)

대한흉부심장혈관외과학회  
제51차 추계학술대회

The 51<sup>st</sup> Annual Meeting of the Korean Society for Thoracic and Cardiovascular Surgery (KTCVS)

## 제51차 추계학술대회 참가 특별회원

부스위치	업체명
1	(주)한솔카디악케어
2~3	(주)계팅게메디칼코리아
4	(주)엠디아아이메디칼
5~8	메트로닉코리아(유)
9~10	라파메드(유)
11	신영메딕스
12	(주)케이엔피
13	종근당
14	미쓰비시다나베파마코리아(주)
15	동화약품(주)
16	삼진제약(주)
17	(주)휴넥스코리아
18	SK플라즈마
19	JW중외제약
20	동아에스티(주)
21	한미헬스케어(주)
22	지이헬스케어코리아 주식회사
23	바드코리아
24	주식회사 메디툴립글로벌
25	아이비에스메디칼 주식회사
26	주식회사 나우메드
27	올림푸스한국(주)
28~29	한국테루모주식회사
30	지상아이엔씨
31	(주)도고메디칼
32	주식회사 다림양행

부스위치	업체명
33~34	한림제약(주)
35~36	(주)유한양행
37	(주)제일메디칼코퍼레이션
38	(주)제니스팜
39	(주)맥진메디칼
40	텔레플렉스 코리아
41	푸르덴셜생명보험(주)
42	나우메드 유한회사
43~44	애보트메디컬코리아
45~46	한국존슨앤드존슨메디칼 (주)
47~48	인튜이티브서지컬코리아 유한회사
49	(주)하주
50	남북써지칼(주)
51~52	에이스코리아
53	(주)프라임메드
54	한국쓰리엠(주)
55	주식회사 메손
56	(주)프레제니우스메디칼케어코리아
57	동방피오씨(주)
58	우진메디텍코리아(주)
59~60	박스터
61~62	에드워즈라이프사이언스코리아 주식회사
63	칼스톨츠엔도스코피코리아(유)
64	성우메디텍 주식회사
65	크리스탈 옵틱



2019년 10월  
24일(목)~26일(금)

창원 컨벤션센터 (CECO)

## 대한흉부심장혈관외과학회 제51차 추계학술대회

The 51<sup>st</sup> Annual Meeting of the Korean Society for Thoracic and Cardiovascular Surgery (KTCVS)

## SPONSORSHIP





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## 역사기록보존위원회 사진전, 자필교과서 전시회

대한흉부심장혈관외과학회 역사기록보존위원회

추계학회 역사인물 사진전

고병간 高秉幹 Pyung-Kan Koh (1899-1966)



1919.3.1 운동으로 투옥

1948.10.6 한국 최초 흉곽성형술

1949. 6. 7 한국 최초 전폐절제술

등록처 맞은 편 전시중임. 폐회식에서 퀴즈 상품추첨 있습니다.

*Korean J Thorac Cardiovasc Surg.* 2019 Oct; 52(5): 331-334

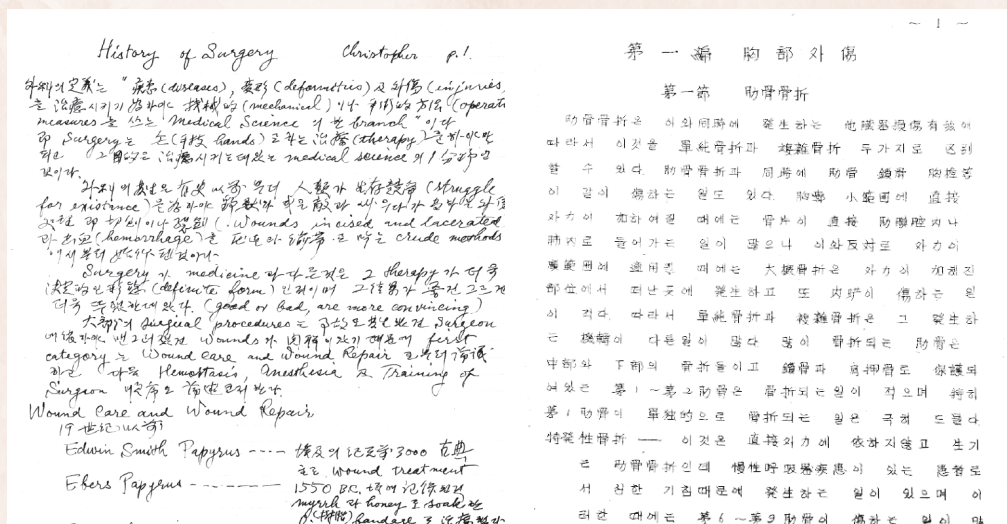
대한흉부심장혈관외과학회 역사기록보존위원회

## 대한민국 흉부외과 최초 자필교과서

초창기 흉부외과를 가르쳤던 교수들은 무슨 교재로 학생들을 가르쳤을까? 당시에는 외국교과서를 구입하거나 인터넷으로 정보를 쉽게 접할 수 있는 현재와 같은 여건이 아니고 종이 한 장이 귀한 시대였으며 인쇄술이 빈약했기 때문에 아마도 학생들은 교수들이 가르치는 말을 종이에 필기해서 외웠을 것이다. 그런 시대에 학생을 교육하겠다는 집념으로 직접 자필로 강의록을 작성한 이찬범 교수와 교과서를 만들어 보급한 홍필훈 교수의 열정은 가히 본받을 만하다.

서울의대 이찬범 (1915-1967)

연세의대 홍필훈 (1915-1967)



등록처 맞은 편 전시중임. 폐회식에서 퀴즈 상품추첨 있습니다.



2019년 10월  
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창원 컨벤션센터 (CECO)

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### 학술대회 일정표



2019년 10월 24일(목)

장소: 창원 컨벤션센터

2019-10-24(목)	성인심장 컨벤션홀 II+III	일반흉부 컨벤션홀 I	소아심장 301+302 강의실
08:00~09:30	체외순환보조 및 심부전, 기타 심혈관 (1~7연제) 좌장: 박남희, 윤영남	최소침습수술 (20~26연제) 좌장: 조덕근, 이창영	선천성심장질환 I (32~38연제) 좌장: 윤태진, 조준용
09:30~10:00	Coffee Break		
10:00~11:00	개회식	점심	
	1. 개회식 및 환영사 2. 축사 3. 학술상 시상 Dr. Lillehei Merit Award Ethicon Medical Award 4. 흉부외과 의료 봉사상 수여 (대상, 본상) 5. 우수활동위원 포상		
11:00~12:30	자유연제 (8~14연제) 좌장: 나국주, 지현근		
12:30~13:30	Luncheon seminar 1 좌장: 임 청		
	메드트로닉 코리아(주)		
	Hemodynamic Performance of New Bovine Pericardial Valve in Aortic Position 황호영 (서울대학교병원)		
13:30~14:30	특강 I 및 MOU 체결 좌장: 권오춘		
	Role of open surgery in the era of endovascular Yutaka Okita, M.D., Ph.D. (President, The Japanese Association for Thoracic Surgery, Professor & Chairman, Kobe University, Division of Cardiovascular Surgery, Depart of Surgery, Japan)		
14:30~15:00	Medtronic 연구공로상 강연 및 시상 좌장: 오태윤 김진국 (성균관대학교 삼성서울병원)		
15:00~15:30	회장강연 및 시상 좌장: 오태윤 회장: 권오춘 (대구가톨릭대학교병원)		
15:30~16:00	Coffee Break		
16:00~17:30	Forum, Cardiac (English) (1~8연제) 좌장: 황호영, 김호진	Forum, General Thorax (English) (9~16연제) 좌장: 김홍관, 성용원	16:00~17:30 전체이사회
17:30~18:30	Medtronic Award (15~19연제) 좌장: 성기익, 이기중	폐암 1 (27~31연제) 좌장: 김관민, 최용수	선천성심장질환 II (39~43연제) 좌장: 이정렬, 유재현
	E-poster Presentation (1~22연제) (2019. 10. 24~26)		



2019년 10월 25일(금)  
장소: 창원 컨벤션센터

2019-10-25(금)	성인심장 컨벤션홀 III	일반흉부 컨벤션홀 II	소아심장 컨벤션홀 I	301+302 강의실	601+602 강의실
08:00~09:00	판막 (44~48연제) 좌장: 김근직, 이 사	일반흉부 I (61~65연제) 좌장: 함석진, 최세훈		08:00~10:00 필수과목 연수교육	
09:00~10:00	관상동맥 (49~53연제) 좌장: 김옥성, 조광리	폐암 II (66~70연제) 좌장: 김영태, 이응배	Medtronic Award (78~82연제) 좌장: 박영환, 김웅한		
10:00~10:30	Coffee Break				
10:30~11:30	특강 2 좌장: 김경환	특강 3 좌장: 강창현	Meet the Expert 좌장: 박한기	11:00~12:30 흉부외과 여의사회 세션 및 경기총회	09:00~12:00 체외순환사협회 추계학술대회
	1. Korean TAVI Guideline and Role of Cardiac Surgeon in Heart Team 신성호 (제주한라병원) 2. TAVI 레지스트리 분석을 통한 재평가 연구 박동아 단장 (한국보건의료연구원) 3. Experience of TAVI as a cardiac surgeon 김호진 (울산대학교 서울아산병원) 4. Discussion	Current status of esophageal cancer surgery in China Lijie, Tan MD, FACS (Professor of Surgery Chief, Division of Thoracic Surgery Director, Center for Esophageal Cancer, Zhong Shan Hospital, Shanghai Medical College, Fu Dan University, China)	Expert ? Cardioac surgeon in evidence based era 서동만 (이화여자대학교 서울병원)	11:00~12:00 하지정맥류/심부정맥혈전증 진단을 위한 혈관초음파 검사법(Hands-on 시연) 박영란 (코니카 미놀타) 12:00~12:30 여의사회 경기총회	
11:30~12:30	총회				
12:30~13:30	Luncheon seminar 2 좌장: 장병철	Luncheon seminar 3 좌장: 최용수	Luncheon seminar 4 좌장: 권오춘	Luncheon seminar 5 좌장: 제형근	
	<애보트메디칼코리아 유통회사> How to select the best SAVR valves in TAVI era Dr. Hitoshi Yaku, MD, (Kyoto Prefectural University of Medicine, Division of Cardiovascular Surgery, Japan)	<한국존슨앤드존슨메디칼> How to teach VATS lobectomy 조석기 (분당서울대학교병원)	<에드워즈라이프사이언시스 코리아> Three-year experience of sutureless and rapid-deployment valve in severe aortic stenosis: is routine application possible? 이재원 (울산대학교 서울아산병원)	<한솔카디악케어> Perceval(Sutureless Valve) 이승현 (연세대학교 심장혈관병원)	
13:30~15:00	포럼 I (1~12연제) 좌장: 최재성, 송석원	포럼 II (13~24연제) 좌장: 김형렬, 강민웅	포럼 III (25~26연제) 선천성심장질환 III (83~87연제) 좌장: 전태국, 이창하	13:30~17:00 지도전문의 교육	
15:00~15:30	Coffee Break				
15:30~17:00	대동맥 (54~60연제) 좌장: 박계현, 김재현	식도, 종격동 (71~77연제) 좌장: 김대준, 박기성	외상, 중환자 (88~94연제) 좌장: 이석기, 김재범	지도전문의 교육	
17:00~18:30	시상식				
	학술상 시상 이영균 우수논문상 한국심장재단 우수논문상 일동 학술상 Medtronic Award 발표상 English Competition Forum 발표상 Forum 발표상 우수 포스터상				



2019년 10월 26일(토)  
장소: 창원 컨벤션센터

2019-10-26(토)	성인심장 컨벤션홀 III	일반홍부 컨벤션홀 II
08:00~08:30	Meet the Expert 좌장: 김한용	Meet the Expert 좌장: 이성수
	Surgery for Cardiac Arrhythmias: discovery and cure 장병철 (차의과학대학교 분당차병원)	홍벽기형 교정수술법의 문제점과 해결책 1부: 도전과 응전의 20년 2부: 신사고에 의한 미래 수술법 박형주 (가톨릭대학교 서울성모병원)
08:30~09:30	대동맥, 말초혈관 (95~99연제) 좌장: 조광조, 주석중	폐암 III (105~109연제) 좌장: 강창현, 김영대
09:30~10:00	Coffee Break	
10:00~11:00	판막, 부정맥, 최소침습 (100~104연제) 좌장: 제형근, 김준범	일반홍부 II (110~114연제) 좌장: 황상원, 김현구
11:00~12:00	Video session (1~8연제) 좌장: 김문수, 정성호	경품 추첨 및 폐회식 1. 역사기록보존위원회 퀴즈 행운상 2. 후원사 부스 참관 경품 추첨





2019년 10월  
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## 프로그램

### 구 연



2019년 10월 24일(목)

장소: 컨벤션홀 II+III



08:00~09:30

체외순환보조 및 심부전, 기타 심혈관 (1~7연제)

좌장: 박남희, 윤영남

- 001 **Risk Factor Analysis of Extracorporeal Cardiopulmonary Resuscitation for Out-of-hospital Cardiac Arrest**  
Won Ho Chang, Young Kwang Hong, Hong Chul Oh, Young Woo Park  
 Department of Thoracic and Cardiovascular Surgery, Soonchunhyang University Hospital Seoul, Soonchunhyang University College of Medicine, Seoul, Republic of Korea
- 002 **Predictors for Survival in Patients with Initiation Extracorporeal Membrane Oxygenation Support for Acute Myocardial Infarction-complicated Refractory Cardiogenic Shock/cardiac Arrest: Retrospective Study**  
Ho Hyun Ko, Hyoung Soo Kim, Sun Hee Lee  
 Department of Thoracic and Cardiovascular Surgery, Sacred Heart Hospital, Hanlym University College of Medicine, Gyeonggi-do, Republic of Korea
- 003 **Venoarterial-venous Extracorporeal Membrane Oxygenation Conversion in Patients with Harlequin Syndrome in Venoarterial ECMO, A Single Center Experiences**  
Dong Hoon Kang, Jong Woo Kim, Sung Hwan Kim, Seong Ho Moon, Jun Ho Yang, Jae Jun Jeong, Joungh Hun Byun  
 Department of Thoracic and Cardiovascular Surgery, Gyeongsang National University Changwon Hospital, Gyeongsang National University School of Medicine, Gyeongnam, Republic of Korea
- 004 **Back-flow Arteriovenous Shunt test for Weaning of VA ECMO**  
Min Ho Ju, Mi Hee Lim, Chee-Hoon Lee, Hyung Gon Je  
 Department of Cardiovascular and Thoracic Surgery, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea
- 005 **Risk Factors for Stroke in Left Ventricular Assist Device (LVAD) Implanted Patients**  
Ilkun Park, Yang Hyun Cho, Dong Seop Jeong, Ji-Hyuk Yang, Kiick Sung, Wook Sung Kim, Tae-Gook Jun, Young Tak Lee, Pyo Won Park  
 Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea
- 006 **End Organ Damage Measured with MELD-XI and SOFA Score can Predict the Early Mortality After Heart Transplantation**  
Jung-Hwan Kim, Seung Hyun Lee, Hyun-Chel Joo, Sak Lee, Kyung-Jong Yoo, Young-Nam Youn  
 Division of Cardiovascular Surgery, Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- 007 **Primary Graft Dysfunction after Isolated Heart Transplantation; Incidence, Risk Factors and Clinical Implications**  
Younju Rhee<sup>1</sup>, Ho Jin Kim<sup>1</sup>, Sung-Ho Jung<sup>1</sup>, Jae-Joong Kim<sup>2</sup>, Min-Seok Kim<sup>2</sup>, Sang Eun Lee<sup>2</sup>, Suk Jung Choo<sup>1</sup>, Tae-Jin Yun<sup>1</sup>, Jae Won Lee<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Cardiology, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

09:30~10:00 Coffee Break

장소: 1전시장 (3층)



10:00~11:00 개회식

1. 개회사 및 환영사
2. 축하
3. 학술상 시상
  - Dr. Lillehei Merit Award
  - Ethicon Medical Award
4. 흉부외과 의료 봉사상 수여 (대상, 본상)
5. 우수활동위원 포상

11:00~12:30 자유연제 (8~14연제)

좌장: 나국주, 지현근

- 008 Incidence and Mortality of Acute Thoracic Aortic Dissection in Korea: A Nationwide Population-based Study**  
Jun Ho Lee<sup>1</sup>, Yang Hyun Cho<sup>2</sup>, Hyo Jun Jang<sup>1</sup>, Sun Kyun Ro<sup>3</sup>, Hyuck Kim<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Hanyang University Medical Center, Hanyang University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Hanyang University Guri Hospital, Hanyang University College of Medicine, Gyeonggi-do, Republic of Korea
- 009 The Impact of Multiple Arterial Graft on Mid-Term Clinical Outcomes after Off-Pump Coronary Artery Bypass Graft Compared with Single Arterial Graft**  
Joon-young Song, Jung-Hwan Kim, Hyun-Chel Joo, Seung Hyun Lee, Sak Lee, Kyung-Jong Yoo, Young-Nam Youn  
Division of Cardiovascular Surgery, Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- 010 Recurrence Dynamics in N2 Non-small Cell Lung Cancer Patients who Underwent Surgery as an Initial Treatment.**  
Byung Jo Park, Tae Ho Kim, Jung Hee Lee, Sumin Shin, Jong Ho Cho, Hong Kwan Kim, Yong Soo Choi, Jae Ill Zo, Young Mog Shim, Jhingook Kim  
Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea
- 011 Acute Kidney Injury after Aortic Arch Repair in Neonates and young Infants: Does Perfusion Strategy Matter?**  
Eun Seok Choi, Won Young Lee, Bo Sang Kwon, Tae-Jin Yun, Chun Soo Park  
Divisions of Pediatric Cardiac Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- 012 Comparison of Quality of Life between Substernal Route and Posterior Mediastinal Route for Reconstruction in Cervical Esophagogastrostomy for Esophageal Cancer**  
Seong Young Park<sup>1</sup>, Seok Jae Heo<sup>2</sup>, Inkyung Jung<sup>2</sup>, Dae Joon Kim<sup>1</sup>, Jee Won Suh<sup>1</sup>, Chang Young Lee<sup>1</sup>, Jin Gu Lee<sup>1</sup>, Hyo Chae Paik<sup>1</sup>, Kyoung Young Chung<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Division of Biostatistics, Department of Biomedical Systems Informatics, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- 013 Comparison of Diagnostic Thoracoscopic Wedge Resection and Percutaneous Needle Biopsy for Indeterminate Solitary Pulmonary Nodules Suspected for Lung Cancer: Efficacy and Cost-effectiveness**  
Kwon Joong Na, In Kyu Park, Samina Park, Chang Hyun Kang, Young Tae Kim  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- 014 Mitral Prosthesis Flow Dynamics Assessment for Proving Patient-Prosthesis Mismatching using Experimental Mock Loop Flow System**  
Tae Wook Noh, Jung-Hwan Kim, Young-Nam Youn, Sak Lee, Kyung-Jong Yoo, Hyun-Chel Joo, Seung-hyun Lee  
Division of Cardiovascular Surgery, Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea



2019년 10월 24일(목)  
장소: 컨벤션홀 II+III



12:30~13:30 Luncheon Seminar 1 좌장: 임 청

<메드트로닉 코리아(주)>  
Hemodynamic Performance of New Bovine Pericardial Valve in Aortic Position  
황호영(서울대학교병원)

13:30~14:30 특강 I 및 MOU 체결 좌장: 권오춘

Role of open surgery in the era of endovascular  
Yutaka Okita, MD, PhD  
(President,  
The Japanese Association for Thoracic Surgery  
Professor & Chairman,  
Kobe University, Division of Cardiovascular Surgery,  
Department of Surgery  
Japan)

14:30~15:00 Medtronic 연구공로상 강연 및 시상 좌장: 오태운

김진국(성균관대학교 삼성서울병원)

15:00~15:30 회장강연 및 시상 좌장: 오태운

회장: 권오춘(대구가톨릭대학교병원)

15:30~16:00 Coffee Break

장소: 1전시장 (3층)

16:00~17:30 전체이사회 장소: 301+302 강의실



17:30~18:30

Medtronic Award I (15~19연제)

좌장: 성기익, 이기종

**015 Intimal Flap Propagation and Hemopericardium in Acute Type II Aortic Dissection: Role of Intimomedial Calcium Plaque**

Tae-Hoon Kim<sup>1</sup>, Suk-Won Song<sup>1</sup>, Ha Lee<sup>1</sup>, Myeong Su Kim<sup>2</sup>, Woon Heo<sup>3</sup>, Kyung-Jong Yoo<sup>4</sup>, Byung Chul Chang<sup>5</sup>, Bum-Koo Cho<sup>6</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea,

<sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Armed Forces Capital Hospital, Gyeonggi-do, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Inje University Haeundae Paik Hospital, Inje University College of Medicine, Busan Republic of Korea, <sup>4</sup>Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>5</sup>Department of Thoracic and Cardiovascular Surgery, CHA Bundang Medical Center, CHA University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>6</sup>The Korea Heart Foundation, Seoul, Republic of Korea

**016 Elephant Trunk in Total Arch Replacement for Acute Type I Dissection – should it be Stented?**

Jae Hang Lee, Bongyeon Sohn, Hakju Kim, Hyoung Woo Chang, Dong Jung Kim, Jun Sung Kim, Cheong Lim, Kay-Hyun Park

Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Gyeonggi-do, Republic of Korea

**017 Iatrogenic Type A Aortic Dissection during Elective Cardiac Surgery**

Wan Kee Kim, Jae Suk Yoo

Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea

**018 Early Experience in the Development of New Vascular Graft with Small Diameter**

Do Wan Kim, Kyo Seon Lee, Sang Gi Oh, Yo Chun Jung, Kook Joo Na, Sang Yun Song, Ju Sik Yoon, Seok Kim, Byung Hee Ahn, Obiweluzor Francis, Mukhammad Kaymov, In Seok Jeong

Department of Thoracic and Cardiovascular Surgery, Chonnam National University Hospital, Chonnam National University College of Medicine, Gwangju, Republic of Korea

**019 Quantitative Proteomic Analysis of Archived Formalin-fixed, Paraffin-embedded Abdominal Aortic Aneurysm tissue with Monomeric C-reactive Protein Deposition by High-resolution LC-MS System**

Se Jin Oh<sup>1</sup>, Eun Na Kim<sup>2</sup>, Chong Jai Kim<sup>2</sup>, Joon Seo Lim<sup>3</sup>, Jiyoung Yu<sup>4</sup>, So Ra Kim<sup>5</sup>, Jae-Sung Choi<sup>1</sup>, Suk Jung Choo<sup>6</sup>, Joon Bum Kim<sup>6</sup>, Kyunggon Kim<sup>4</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, SMG-SNU Boramae Medical Center, Seoul National University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Pathology, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Clinical Research Center, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea, <sup>4</sup>Clinical Proteomics Core Lab, Asan Institute for Life Sciences, Seoul, Republic of Korea, <sup>5</sup>Asan Laboratory of Perinatal Science, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea, <sup>6</sup>Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea



08:00~09:30

최소침습수술 (20~26연제)

좌장: 조덕곤, 이창영

- 020 Comparative Analysis of Long-term Outcome between Minimally Invasive Pulmonary Resection Combined with and without Video-assisted Mediastinoscopic Lymphadenectomy for Left-sided Lung Cancer: Clinical Impacts on Patients with Borderline Lung Function**

Jae Kwang Yun, Yong Ho Jeong, Yooyoung Chong, Geun Dong Lee, Sehoon Choi, Hyeong Ryul Kim, Dong Kwan Kim, Seung-II Park, Yong-Hee Kim

Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

- 021 Subxiphoid Approach for Robotic Single Site Thymectomy**

Hyun Koo Kim, Kook Nam Han, Jeong In Hong, Young Ho Choi

Departments of Thoracic and Cardiovascular Surgery, Korea University Guro Hospital, Korea University College of Medicine, Seoul, Republic of Korea

- 022 Surgical Treatment of Compensatory Hyperhidrosis**

Kwanyong Hyun, Jae Kil Park, Mi Hyoung Moon, Ji Yoon Lee, Jungsun Lee

Department of Thoracic and Cardiovascular Surgery, Seoul St. Mary's Hospital, The Catholic University College of Medicine, Seoul, Republic of Korea

- 023 The short-term Outcomes in Patients with Secondary Spontaneous Pneumothorax who underwent a Fibrin Glue Application under Pleurography**

Hyo Yeong Ahn, Yeong Dae Kim, Hoseok I, Jeong Su Cho

Department of Thoracic and Cardiovascular Surgery, Pusan National University Hospital, Pusan National University College of Medicine, Busan, Republic of Korea

- 024 Perioperative Outcomes of Robotic Versus Single Port VATS Lung Resection**

Kook Nam Han, Hyun Koo Kim, Jeong In Hong, Young Ho Choi

Department of Thoracic and Cardiovascular Surgery, Korea University Guro Hospital, Korea University College of Medicine, Seoul, Republic of Korea

- 025 Learning Curve of Uniportal VATS Lobectomy and Systemic Lymph Nodes Dissection: A Novice Surgeon Experience in a Middle Volume Center**

Kim Jong Hun, Kim Tae Yun, Kim Kyung Hwa, Lee Jeong Moon

Department of Thoracic and Cardiovascular Surgery, Chonbuk National University Hospital, Chonbuk National University College of Medicine, Jeollabuk-do, Republic of Korea

- 026 Successful VATS Lobectomy and Complete Mediastinal Lymph Node Dissection for Clinical N2 Lung Cancer after Neoadjuvant Concurrent Chemoradiation Therapy: Comparison of Operative Outcomes between Early-period and Late-period.**

Byung Jo Park<sup>1</sup>, Yong Soo Choi<sup>1</sup>, Yeong Jeong Jeon<sup>1</sup>, Kyungjong Lee<sup>2</sup>, Hongryull Pyo<sup>3</sup>, Jin Seok Ahn<sup>4</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea,

<sup>2</sup>Division of Pulmonary and Critical Care Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea,

Department of Radiation Oncology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea, <sup>4</sup>Division of

Hematology-Oncology, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

09:30~10:00 *Coffee Break*

장소: 1전시장 (3층)



2019년 10월 24일(목)  
장소: 컨벤션홀 II+III



**10:00~11:00      개회식**

1. 개회사 및 환영사
2. 축사
3. 학술상 시상
  - Dr. Lillehei Merit Award
  - Ethicon Medical Award
4. 흉부외과 의료 봉사상 수여 (대상, 본상)
5. 우수활동위원 포상

**11:00~12:30      자유연제**

좌장: 나국주, 지현근

**12:30~13:30      Luncheon Seminar 1**

좌장: 임    청

<메드트로닉 코리아(주)>  
Hemodynamic Performance of New Bovine Pericardial Valve in Aortic Position

황호영(서울대학교병원)

**13:30~14:30      특강 I 및 MOU 체결**

좌장: 권오춘

Role of open surgery in the era of endovascular

Yutaka Okita, MD, PhD  
(President,  
The Japanese Association for Thoracic Surgery  
Professor & Chairman,  
Kobe University, Division of Cardiovascular Surgery,  
Department of Surgery  
Japan)

**14:30~15:00      Medtronic 연구공로상 강연 및 시상**

좌장: 오테윤

김진국(성균관대학교 삼성서울병원)

**15:00~15:30      회장강연 및 시상**

좌장: 오테윤

회장: 권오춘(대구가톨릭대학교병원)

15:30~16:00    Coffee Break

장소: 1전시장 (3층)

**16:00~17:30      전체이사회**

장소: 301+302 강의실



17:30~18:30

폐암 I (27~31 연제)

좌장: 김관민, 최용수

- 027 Survival outcome and prognostic factors after postoperative recurrence of non-small cell lung cancer**  
Yooхва hwang, Wan Jin Hwang, Soyoung Lee, Mincheol Chae, Woohyun Jung, Jae Hyun Jeon, Sukki Cho, Kwahanmien Kim, Sanghoon Jheon  
 Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- 028 Application of Continuous Vagal Intraoperative Neuromonitoring during Video-assisted Thoracoscopic Surgery Lobectomy for Left Lung Cancer to Prevent Recurrent Laryngeal Nerve Injury**  
 Young Jun Chai<sup>1</sup>, Jung-Man Lee<sup>2</sup>, Yong Won Seong<sup>3</sup>, Hyeon Jong Moon<sup>3</sup>  
<sup>1</sup>Department of Surgery, SMG-SNU Boramae Medical Center, Seoul National University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Anesthesiology and Pain Medicine, SMG-SNU Boramae Medical Center, Seoul National University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, SMG-SNU Boramae Medical Center, Seoul National University College of Medicine, Seoul, Republic of Korea
- 029 The Effect of Inferior Pulmonary Ligament Division during Left upper Lobectomy on Lung Volume and Bronchial Angle Change**  
Duk Hwan Moon<sup>1</sup>, Joonho Jung<sup>2</sup>, Seok Jin Haam<sup>2</sup>, Sungsoo Lee<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Ajou University Hospital, Ajou University School of Medicine, Gyeonggi-do, Republic of Korea
- 030 Global Health Status/QOL at Diagnosis for Prediction of Postoperative Pulmonary Complications in NSCLC Patients**  
Sumin Shin<sup>1</sup>, Danbee Kang<sup>2,3</sup>, Juhee Cho<sup>2,3</sup>, Yong Soo Choi<sup>1</sup>, Jong Ho Cho<sup>1</sup>, Hong Kwan Kim<sup>1</sup>, Yong Soo Choi<sup>1</sup>, Jhingook Kim<sup>1</sup>, Jae Ill Zo<sup>1</sup>, Young Mog Shim<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea, <sup>2</sup>Center for Clinical Epidemiology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Clinical Research Design and Evaluation, SAHST, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea
- 031 Laser Absorbance and Raman Spectrum according to Subtype of Pulmonary Malignancies: Preliminary Study for Photoacoustic Ultrasonography**  
 Wonkyoung Lee<sup>1</sup>, Bong Kyu Kim<sup>1</sup>, Hyun Jin Cho<sup>2</sup>, Min-Woong Kang<sup>2</sup>, Jin San Bok<sup>2</sup>, Sung Joon Han<sup>2</sup>, Piao Zhe<sup>2</sup>, Woosik Han<sup>2</sup>, Man-Shik Shim<sup>2</sup>, Shin Kwang Kang<sup>2</sup>, Jae Hyeon Yu<sup>2</sup>, Myung Hoon Na<sup>2</sup>  
<sup>1</sup>Electronics and Telecommunications Research Institute, Daejeon, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Chungnam National University Hospital, Chungnam National University College of Medicine, Daejeon, Republic of Korea





08:00~09:30 선천성심장질환 I (32~38연제)

좌장: 윤태진, 조준용

- 032 Surgical Outcomes in Coarctation of Aorta with Infants Weighing Less Than 2.5 kg**  
Won Young Lee, Bo Sang Kwon, Eun Seok Choi, Chun Soo Park, Tae-Jin Yun  
 Division of Pediatric Cardiac Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- 033 A Modification of the Senning Procedure in the Double-switch Operation: The Triangular Double-door Technique**  
Hyungtae Kim<sup>1</sup>, Si Chan Sung<sup>1</sup>, Kwang Ho Choi<sup>1</sup>, Hyoung Doo Lee<sup>2</sup>, Hoon Ko<sup>2</sup>, Joung-Hee Byun<sup>2</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea, <sup>2</sup>Department of Pediatrics, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea
- 034 'Shunt-only' Strategy in Patients with Pulmonary Atresia or Stenosis and Juxtaductal Pulmonary Artery Stenosis**  
Eun Seok Choi, Won Young Lee, Bo Sang Kwon, Chun Soo Park, Tae-Jin Yun  
 Divisions of Pediatric Cardiac Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea  
 지정토론: 정인석 (전남대학교병원)
- 035 Early Total Repair Versus Shunt Palliation in Ductal Dependent Neonates With Pulmonary Atresia and Ventricular Septal Defect : Results Of Two Hospitals**  
Eung Re Kim<sup>1</sup>, Chang-Ha Lee<sup>1</sup>, Jae Hong Lim<sup>1</sup>, Yong Jin Kim<sup>1</sup>, Woong-Han Kim<sup>2</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Seoul National University Children's Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea  
 지정토론: 이 철 (가톨릭대학교 서울성모병원)
- 036 Surgical Outcomes of Infective Endocarditis : 20-Year Experience of Children's Hospital**  
Jae Hong Lee, Sungkyu Cho, Jae Gun Kwak, Woong-Han Kim  
 Department of Thoracic and Cardiovascular Surgery, Seoul National University Children's Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- 037 Long-Term Outcomes of Arterial Switch Operation for Taussig-Bing Anomaly: Consideration About Lecompte Procedure According to Relationship of Great Arteries**  
Jae Hong Lim, Eung Rae Kim, Chang Ha Lee  
 Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea
- 038 Outcome after Surgical Repair of Coronary Arteriovenous Fistulae**  
Sungbin Cho, Eun Seok Choi, Bo Sang Kwon, Chun Soo Park, Tae-Jin Yun  
 Division of Pediatric Cardiac Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

09:30~10:00 Coffee Break

장소: 1전시장 (3층)



2019년 10월 24일(목)  
장소: 컨벤션홀 II+III



**10:00~11:00**      **개회식**

1. 개회사 및 환영사
2. 축사
3. 학술상 시상
  - Dr. Lillehei Merit Award
  - Ethicon Medical Award
4. 흉부외과 의료 봉사상 수여 (대상, 본상)
5. 우수활동위원 포상

**11:00~12:30**      **자유연제**

좌장: 나국주, 지현근

**13:30~14:30**      **특강 I 및 MOU 체결**

좌장: 권오춘

Role of open surgery in the era of endovascular

Yutaka Okita, MD, PhD  
(President,  
The Japanese Association for Thoracic Surgery  
Professor & Chairman,  
Kobe University, Division of Cardiovascular Surgery,  
Department of Surgery  
Japan)

**14:30~15:00**      **Medtronic 연구공로상 강연 및 시상**

좌장: 오탉윤

김진국(성균관대학교 삼성서울병원)

**15:00~15:30**      **회장강연 및 시상**

좌장: 오탉윤

회장: 권오춘(대구가톨릭대학교병원)

15:30~16:00      *Coffee Break*

장소: 1전시장 (3층)

**16:00~17:30**      **전체이사회**

장소: 301+302 강의실



17:30~18:30

선천성심장질환 II (39~43연제)

좌장: 이정렬, 유재현

**039 Biventricular Repair of Atrioventricular Septal Defect Associated With Tetralogy of Fallot or Double-Outlet Right Ventricle: 15-Year Experience in a Single Center**

Jae Hong Lee, Sungkyu Cho, Jae Gun Kwak, Woong-Han Kim

Department of Thoracic and Cardiovascular Surgery, Seoul National University Children's Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

**040 Anatomical Characteristics and Clinical Outcomes of Criss-cross Heart**

Dong-Hee Kim, Sungbin Cho, Bobae Jeon, Won Young Lee, Eun Seok Choi, Bo Sang Kwon, Chun Soo Park, Tae-Jin Yun

Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

**041 Long-term Outcome of Concomitant Surgical Ablation for Atrial Arrhythmia in Patients with Congenital Heart Disease in a Single Cardiac Center**

Jae Hong Lim<sup>1</sup>, Eung Rae Kim<sup>1</sup>, Ja Kyoung Yoon<sup>2</sup>, Chang Ha Lee<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea, <sup>2</sup>Department of Pediatrics, Sejong General Hospital, Gyeonggi-do, Republic of Korea

지정토론: 신흥주 (고려대학교 안산병원)

**042 Management of Pulmonary Artery sling; A Single-center Experience**

Bobae Jeon, Dong-Hee Kim, Sungbin Cho, Won Young Lee, Bo Sang Kwon, Chun Soo Park, Tae-Jin Yun, Eun Seok Choi

Division of Pediatric Cardiac Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

**043 Outcomes of Warden Procedure: 17-year Experience**

Jooncheol Min, Yu-jin Kwak, Jae-Hong Lee, Sungkyu Cho, Jae Gun Kwak, Woong-Han Kim

Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

지정토론: 장우성 (계명대학교 동산의료원)





08:00~10:00 필수과목 연수교육 장소: 301+302 강의실

08:00~09:00 판막 (44~48연제) 좌장: 김근직, 이 삭

**044 Analysis of Positive Prognostic Predictors and Long-Term Outcomes after Aortic Valve Replacement in Patients with Chronic Aortic Regurgitation**

Min-Seok Kim, Jung Whan Kim, Hyun-Chel Choo, Sak Lee, Young-Nam Youn, Kyung-Jong Yoo, Seung Hyun Lee  
Division of Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

**045 Appearance and Disappearance of Conduction Abnormalities after Rapid-deployment Aortic Valve Replacement**

Suk Ho Sohn, Kyung Hwan Kim, Yeiwon Lee, Sue Hyun Kim, Jae Woong Choi  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

**046 Prognosis of Aortic Valve Function After Rheumatic Mitral Valve Intervention.**

Hong Rae Kim<sup>1</sup>, Wan Kee Kim<sup>2</sup>, Ho Jin Kim<sup>3</sup>, Sung-Ho Jung<sup>3</sup>, Suk Jung Joo<sup>3</sup>, Cheol Hyun Chung<sup>3</sup>, Jae Won Lee<sup>3</sup>, Joon Bum Kim<sup>3</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Mokpo City Medical Center, Jeollanam-do, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

**047 Impacts of Valve Repair for Mild Tricuspid Insufficiency during Rheumatic Mitral Surgery**

Wan Kee Kim<sup>1</sup>, Heemoon Lee<sup>1</sup>, Ho Jin Kim<sup>2</sup>, Sang Yoon Yeom<sup>1</sup>, Jae Suk Yoo<sup>1</sup>, Dong Jin Kim<sup>1</sup>, Joon Bum Kim<sup>2</sup>, Sung-Ho Jung<sup>2</sup>, Kwang Ree Cho<sup>1</sup>, Suk Jung Choo<sup>2</sup>, Sam Se Oh<sup>3</sup>, Cheol Hyun Chung<sup>2</sup>, Jae Won Lee<sup>2</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Cardiovascular and Thoracic Surgery, Kangbuk Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

**048 Mid term Outcomes of Septal Myectomy in Patients with Hypertrophic Cardiomyopathy.**

Wook Sung Kim, Su Ryeun Chung, Yang Hyun Cho, Dong Seop Jeong, Kiick Sung, Young Tak Lee, Pyo Won Park  
Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea



2019년 10월 25일(금)  
장소: 컨벤션홀 III



09:00~10:00 관상동맥 (49~53연제) 좌장: 김옥성, 조광리

- 049 Differential Prognostic Implication of Dual Antiplatelet Therapy for Patients with Acute Coronary Syndrome versus Stable Ischemic Heart Disease Who Underwent Coronary Artery Bypass Grafting**  
 Ki Hong Choi<sup>1</sup>, Young Bin Song<sup>1</sup>, Dong Seop Jeong<sup>2</sup>, David Hong<sup>1</sup>, Sang Yoon Lee<sup>1</sup>, Taeho Youn<sup>1</sup>, Minjung Bak<sup>1</sup>, Kyung Min Min<sup>1</sup>, Joo Myung Lee<sup>1</sup>, Taek Kyu Park<sup>1</sup>, Jeong Hoon Yang<sup>1</sup>, Joo-Yong Hahn<sup>1</sup>, Jin-Ho Choi<sup>1</sup>, Seung-Hyuk Choi<sup>1</sup>, Su Ryeun Chung<sup>2</sup>, Yang Hyun Cho<sup>2</sup>, Kiick Sung<sup>2</sup>, Wook Sung Kim<sup>2</sup>, Hyeon-Cheol Gwon<sup>1</sup>, Young Tak Lee<sup>2</sup>  
<sup>1</sup>Division of Cardiology, Department of Internal Medicine, Heart Vascular Stroke Institute, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Heart Vascular Stroke Institute, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea
- 050 Impact of Incomplete Revascularization on Coronary Chronic Total Occlusions in Patients Undergoing Coronary Artery Bypass Graft**  
 Jiyun Lee, Ju Yong Lim, Seung Keun Yoon, Jae Shin Yoon, Hwan Wook Kim, Joonkyu Kang, Hyun Song  
 Department of Thoracic and Cardiovascular Surgery, Seoul St. Mary's Hospital, The Catholic University College of Medicine, Seoul, Republic of Korea
- 051 The Role 99mTc-SPECT to Predict the Left Ventricular Functional Recovery after Off-pump Coronary Artery Bypass for Patients with Severe LV Dysfunction**  
 Tae Wook Noh, Jung-Hwan Kim, Hyun-Chel Joo, Seung-hyun Lee, Sak Lee, Kyung-Jong Yoo, Young-Nam Youn  
 Division of Cardiovascular Surgery, Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- 052 Lessons Learned from the initial 100 cases of Minimally Invasive Direct Coronary artery Bypass Grafting (MIDCAB)**  
 Jae Suk Yoo, Wan Kee Kim, Sang Yoon Yeom, Hee Moon Lee, Dong Jin Kim, Kwang Ree Cho  
 Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea  
 지정토론: 임 청 (분당서울대학교병원)
- 053 Risk Factors Analysis for Conversion from Off-pump to On-pump Coronary Artery Bypass Grafting**  
 Kyo Seon Lee<sup>1</sup>, Jae Beom Jeon<sup>1</sup>, Cho Hee Lee<sup>1</sup>, Eunhong Kim<sup>1</sup>, Seok Kim<sup>2</sup>, Do Wan Kim<sup>1</sup>, Yochun Jung<sup>1</sup>, In Seok Jeong<sup>1</sup>, Sang Yun Song<sup>2</sup>, Kook Joo Na<sup>2</sup>, Byung Hee Ahn<sup>1</sup>, Sang Gi Oh<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Chonnam National University Hospital, Chonnam National University College of Medicine, Gwangju, Republic of Korea, <sup>2</sup>Chonnam National University Hwasun Hospital, Chonnam National University College of Medicine, Jeollanam-do, Republic of Korea

10:00~10:30 Coffee Break

장소: 1전시장 (3층)

11:00-12:30 흉부외과 여의사회 세션 및 정기총회 장소: 301-302 강의실

10:30~11:30 특강 2 좌장: 김경환

- |  |                    |
|--|--------------------|
| 1. Korean TAVI Guideline and Role of Cardiac Surgeon in Heart Team | 신성호 (제주한라병원)       |
| 2. TAVI 레지스트리 분석을 통한 재평가 연구  | 박동아 단장 (한국보건의료연구원) |
| 3. Experience of TAVI as a cardiac surgeon                         | 김호진 (울산대학교 서울아산병원) |
| Discussion   |                    |

11:30~12:30 총회

1. 언론인상 시상
2. 특별공로상 요양 TFT
3. 회무 보고
4. 재무 보고
5. 감사 보고
6. 안건 심의
7. 임원 인준 (제48대 회장단, 이사장 인준)



12:30~13:30

Luncheon Seminar 2

좌장: 장병철

<애보트메디칼코리아 유한회사>

How to select the best SAVR valves in TAVI era

Dr.Hitoshi Yaku, MD (Kyoto Prefectural University of Medicine, Division of Cardiovascular Surgery, Japan)

13:30~17:00

지도전문의 교육

장소: 301+302 강의실

15:30~17:00

대동맥 (54~60연제)

좌장: 박계현, 김재현

054 Management of Intramural Hematoma Involving the Ascending Aorta : Surgery or Medicine?

Suryeun Chung, Yang Hyun Cho, Dong Seop Jeong, Wook Sung Kim, Young Tak Lee, Pyo Won Park, Kiick Sung  
Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

055 Management Outcomes for Type A Acute Aortic Syndrome Presenting with Completely Thrombosed False Lumen in the Ascending Aorta

Hee Jung Kim<sup>1</sup>, Ho Jin Kim<sup>2</sup>, Suk Jung Choo<sup>2</sup>, Joon Bum Kim<sup>2</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Korea University Anam Hospital, Korea University College of Medicine, Seoul, Republic of Korea,  
<sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

056 Neomedia Distal Arch Repair in Acute Type I Aortic Dissection Surgery

Woon Heo<sup>1,2</sup>, Suk-Won Song<sup>2</sup>, Tae-Hoon Kim<sup>2</sup>, Ha Lee<sup>2</sup>, Myeong Su Kim<sup>3</sup>, Kyung-Jong Yoo<sup>4</sup>, Byung-Chul Chang<sup>5</sup>, Bum-Koo Cho<sup>6</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Inje University Haeundae Paik Hospital, Inje University College of Medicine, Busan Republic of Korea,  
<sup>2</sup>Department of Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Armed Forces Capital Hospital, Gyeonggi-do, Republic of Korea, <sup>4</sup>Department of Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>5</sup>Department of Thoracic and Cardiovascular Surgery, CHA Bundang Medical Center, CHA University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>6</sup>The Korea Heart Foundation, Seoul, Republic of Korea

057 Fate of the Dissected Aortic Arch after Ascending Aorta Graft Replacement in DeBakey Type I Aortic Dissection

Joon-Young Song, Jung-Hwan Kim, Young-Nam Youn, Seung Hyun Lee, Sak Lee, Kyung-Jong Yoo, Hyun-Chel Joo  
Division of Cardiovascular Surgery, Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

058 The Modification of Surgical Strategy in Spielvogel Technique for Total Arch Replacement: Double Arterial Lines and Isthmus Preservation Technique Guarantee the Good Surgical Results

Jae Woong Choi, Kyung Hwan Kim, Suk Ho Sohn

Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

059 Arch-Vessel Isolation Technique during Total-arch Repair for Heavily Atherosclerotic Aortic Arch Aneurysm

Sung Jun Park, Hong Rae Kim, Suk Jung Choo

Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

060 Features of Failed Thoracic Endovascular Aortic Repair and the Outcome of Late Open Surgery

Hakju Kim, Bongyeon Sohn, Hyoung Woo Chang, Jae Hang Lee, Dong Jung Kim, Jun Sung Kim, Cheong Lim, Kay-Hyun Park  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Gyeonggi-do, Republic of Korea



2019년 10월 25일(금)  
장소: 컨벤션홀 III



17:00~18:30

시상식

학술상 시상

- 이영균 우수논문상
- 한국심장재단 우수논문상
- 일동 학술상
- Medtronic Award 발표상
- English Competition Forum 발표상
- Forum 발표상
- 우수 포스터상



08:00~10:00 필수과목 연수교육 장소 : 301+302 강의실

08:00~09:00 일반홍부 I (61~65연제) 좌장: 함석진, 최세훈

- 061 Establishment and Molecular Profiling of Lung Squamous Cell Carcinoma Patient-derived Xenograft Models.**  
Tae Ho Kim<sup>1</sup>, Hae-Yun Jung<sup>1</sup>, Hong Kwan Kim<sup>1</sup>, Jinseon Lee<sup>1</sup>, Heekyoung Lee<sup>2</sup>, Hwanseok Rhee<sup>2</sup>, Jhingook Kim<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea, <sup>2</sup>DNA Link, Seoul, Korea
- 062 Selecting a Size-matched Cadaveric Donor for Pediatric Lung Transplantation**  
So Young Bae, Jae Won Song, Kwon Joong Na, Samina Park, In Kyu Park, Chang Hyun Kang, Young Tae Kim  
 Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- 063 Thoracic Cavity Volume Change after Lung Transplantation According to the Underlying end-stage Lung Disease**  
Woo Sik Yu<sup>1</sup>, Chul Hwan Park<sup>2</sup>, Hyo Chae Paik<sup>3</sup>, Jin Gu Lee<sup>3</sup>, Seulgi You<sup>4</sup>, Seokjin Haam<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Ajou University Hospital, Ajou University School of Medicine, Gyeonggi-do, Republic of Korea, <sup>2</sup>Department of Radiology and the Research Institute of Radiological Science, Yonsei University Health System, Seoul, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>4</sup>Department of Radiology, Ajou University Hospital, Ajou University School of Medicine, Gyeonggi-do, Republic of Korea
- 064 Postoperative outcome of lung transplantation for end stage lung disease with pulmonary hypertension : retrospective study of 175 patients**  
Lee Won Suh<sup>1</sup>, Ha Eun Kim<sup>1</sup>, Seong Yong Park<sup>1</sup>, Chang Young Lee<sup>1</sup>, Jin Gu Lee<sup>1</sup>, Dae Joon Kim<sup>1</sup>, Kyoung Young Chung<sup>1</sup>, Su Jin Jeong<sup>2</sup>, Moo Suk Park<sup>3</sup>, Song Yee Kim<sup>3</sup>, Hyo Chae Paik<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Division of Infectious Disease, Department of Internal Medicine, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Division of Pulmonology, Department of Internal Medicine, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- 065 Clinical Pathway for Patients undergoing VATS Lobectomy for Lung Cancer**  
Sukki Cho, Sungwon Yum, Woohyun Jung, Wan Jin Hwang, Mincheol Chae, Soyoung Lee, Youhwa Hwang, Jae Hyun Jeon, Kwhanmien Kim, Sanghoon Jheone  
 Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Gyeonggi-do, Republic of Korea



09:00~10:00 폐암 II (66~70연제) 좌장: 김영태, 이응배

066 Preoperative Fine Needle Aspiration Biopsy Increased the Risk of Recurrence in Early Stage Lung Cancer without Visceral Pleural Invasion

Woohyun Jung, Sukki Cho, Sungwon Yum, Mincheol Chae, Soyoung Lee, Wan Jin Hwang, Yoohwa Hwang, Jae Hyun Jeon, Kwahanmien Kim, Sanghoon Jheon

Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Gyeonggi-do, Republic of Korea

067 Neoadjuvant Therapy Followed by Surgery Versus Upfront Surgery Followed by Adjuvant Therapy for Non-small Cell Lung Cancer Patients with Clinically Suspected Aortopulmonary Window Nodes

Junghee Lee, Sumin Shin, Jong Ho Cho, Hong Kwan Kim, Yong Soo Choi, Jae Ill Zo, Young Mog Shim, Jhingook Kim

Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

068 The Planning and Implementation of Segmentectomy using 3D CT Reconstruction to Achieve Adequate Surgical Margin

Ha-Eun Kim, Jee Won Suh, Go Eun Byun, Da Hee Lee, Seong Yong Park, Jin Gu Lee, Dae Joon Kim, Hyo Chae Paik, Kyung-Young Chung, Chang-Young Lee

Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

069 Feasibility Of Electromagnetic Navigation Bronchoscopy Guided Lung Resection For Pulmonary Ground Glass Opacity Nodule

Sung Joon Han, Piao Zhe, Jin San Bok, Hyun Jin Cho, Min-Woong Kang

Department of Thoracic and Cardiovascular Surgery, Chungnam National University Hospital, Chungnam National University School of Medicine, Daejeon, Republic of Korea

070 Comparison of Stereotactic Ablative Radiotherapy to Surgical Treatment in Elderly Patients with Stage I Lung Cancer

Samina Park, So Young Bae, Jae won Song, Kwon Joong Na, Hyun Joo Lee, In Kyu Park, Young Tae Kim, Chang Hyun Kang

Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

10:00~10:30 Coffee Break

장소: 1전시장 (3층)

11:00-12:30 흉부외과 여의사회 세션 및 정기총회 장소: 301-302 강의실



2019년 10월 25일(금)  
장소: 컨벤션홀 II



10:30~11:30      **특강 3**      좌장: 강창현

Current status of esophageal cancer surgery in China

Lijie, Tan MD, FACS  
(Professor of Surgery  
Chief, Division of Thoracic Surgery  
Director, Center for Esophageal Cancer  
Zhong Shan Hospital,  
Shanghai Medical College, Fu Dan University  
China)

11:30~12:30      **총회**      장소: 컨벤션홀 III

1. 언론인상 시상
2. 특별공로상 요양 TFT
3. 회무 보고
4. 재무 보고
5. 감사 보고
6. 안건 심의
7. 임원 인준 (제48대 회장단, 이사장 인준)

12:30~13:30      **Luncheon Seminar 3**      좌장: 최용수

<한국존슨앤드존슨메디칼>  
How to teach VATS lobectomy

조석기(분당서울대학교병원)

13:30~17:00      **지도전문의 교육**      장소: 301+302 강의실



15:30~17:00

식도, 종격동 (71~77연제)

좌장: 김대준, 박기성

**071 The Prognostic Importance of the Number of Dissected Recurrent Laryngeal Nerve Lymph Node after Radical Esophagectomy for Early-Stage Esophageal Squamous Cell Carcinoma**

Tae Hee Hong, You Jin Ha, Genehee Lee, Sumin Shin, Jong Ho Cho, Hong Kwan Kim, Yong Soo Choi, Jae Ill Zo, Young Mog Shim

Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

**072 Robotic Subxiphoid Thymectomy for Anterior Mediastinal Mass: Early Clinical Outcomes of 100 Consecutive Patients**

Kwon Joong Na, Chang Hyun Kang, Samina Park, In Kyu Park, Young Tae Kim

Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

**073 Surgical Approach for the Treatment of Thymic Carcinoma: Result of 201 Cases from a Korean Multi-Institutional Database Study**

Yeong Jeong Jeon<sup>1</sup>, Yong Soo Choi<sup>1</sup>, Jong Ho Cho<sup>1</sup>, Hong Kwan Kim<sup>1</sup>, Geun Dong Lee<sup>2</sup>, Dong Kwan Kim<sup>2</sup>, Chang Hyun Kang<sup>3</sup>, Young Tae Kim<sup>3</sup>, Chang Young Lee<sup>4</sup>, Jin Gu Lee<sup>4</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea,

<sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea,

<sup>4</sup>Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

**074 Vocal Cord Palsy in Esophagectomy Patients due to Esophageal Cancer : Aspect and Treatment Course of Common Complication**

Yong Ho Jeong, Yong-Hee Kim, Dong Kwan Kim, Seung-Il Park, Hyeong Ryul Kim, Se-hoon Choi, Geun Dong Lee, Jae Kwang Yun, Yooyoung Chong

Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

**075 Endoscopic Vacuum Therapy in the Management of Postoperative Leakage After Esophagectomy**

Jae Hyun Jeon, Soyoung Lee, Wan Jin Hwang, Mincheol Chae, Woohyun Jung, Yoohwa Hwang, Sukki Cho, Sanghoon Jheon, Kwhanmien Kim

Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Gyeonggi-do, Republic of Korea

**076 Diagnostic Accuracy of PET/CT for Detecting the Metastatic Lymph Nodes in Esophageal Squamous Cell Carcinoma**

Seong Yong Park<sup>1</sup>, Dae Joon Kim<sup>1</sup>, Won Jun Kang<sup>2</sup>, Goeun Byun<sup>1</sup>, Jee Won Suh<sup>1</sup>, Chang Young Lee<sup>1</sup>, Jin Gu Lee<sup>1</sup>, Hyo Chae Paik<sup>1</sup>, Kyoung Young Chung<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Nuclear Medicine, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

**077 Surgical Management of Descending Necrotizing Mediastinitis using Video-assisted Thoracoscopic Surgery ; About 20 Years of Experience at 2 Centers**

Bong Soo Son, Do Hyung Kim, Hoseok I, Jeong Su Cho, Hyo Yeong Ahn, Joo Hyung Son, Yeong Dae Kim

Department of Thoracic and Cardiovascular Surgery, Pusan National University Hospital, Pusan National University College of Medicine, Busan, Republic of Korea

17:00~18:30

시상식

장소: 컨벤션홀 III



2019년 10월 25일(금)  
장소: 컨벤션홀 I



08:00~10:00 필수과목 연수교육 장소 : 301+302 강의실

09:00~10:00 Medtronic Award II (78~82연제) 좌장: 박영환, 김웅한

**078 Effect of Cone Repair on Biventricular Function and Volume for Ebstein Anomaly Magnetic Resonance Image Study**

Yujin Kwak, Jaehong Lee, Jooncheol Min, Sungkyu Cho, Woong-Han Kim

Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

**079 Left Ventricular outflow Tract Obstruction after Arch Repair**

Dong-Hee Kim, Sungbin Cho, Bobae Jeon, Won Young Lee, Eun Seok Choi, Bo Sang Kwon, Chun Soo Park, Tae-Jin Yun

Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

**080 Surgical Outcome of Peel Operation for Right Ventricular Outflow Tract Reconstruction**

Yu Rim Shin, Young-Hwan Park, Han Ki Park

Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

**081 Long-term Result of Sandwich Technique for Multiple Ventricular Septal Defect Repair**

Yujin Kwak, Jaehong Lee, Jooncheol Min, Sungkyu Cho, Woong-Han Kim

Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

**082 Clinical Outcomes of Various Surgical Strategies for Pulmonary Atresia / Ventricular Septal Defect with Diminutive Native Pulmonary Artery and Major Aortopulmonary Collateral Arteries**

Dong-Hee Kim, Sungbin Cho, Bobae Jeon, Won Young Lee, Eun Seok Choi, Bo Sang Kwon, Chun Soo Park, Tae-Jin Yun

Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

10:00~10:30 Coffee Break

장소: 1전시장 (3층)

11:00~12:30 흉부외과 여의사회 세션 및 정기총회 장소: 301-302 강의실

10:30~11:30 Meet the Expert 좌장: 박한기

Expert ?

Cardioac surgeon

in evidence based era

서동만 (이화여자대학교 서울병원)

11:30~12:30 총회 장소: 컨벤션홀 III

1. 언론인상 시상
2. 특별공로상 요양 TFT
3. 회무 보고
4. 재무 보고
5. 감사 보고
6. 안건 심의
7. 임원 인준 (제48대 회장단, 이사장 인준)



12:30~13:30 Luncheon Seminar 4 좌장: 권오춘

<에드워즈라이프사이언시스 코리아>  
Three-year experience of sutureless and rapid-deployment valve in severe aortic stenosis:  
is routine application possible? 이재원(울산대학교 서울아산병원)

13:30~17:00 지도전문의 교육 장소: 301+302 강의실

13:30~13:45 포럼 III (25~26연제) 좌장: 전태국, 이창하

- F 25 A single-center Experience of Pediatric Extracorporeal Membrane Oxygenation in Neonates with Congenital Diaphragmatic Hernia  
Wooseok Choi, Eun Seok Choi, Tae-Jin Yun, Chun Soo Park  
Division of Pediatric Cardiac Surgery, Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- F 26 The Effectiveness of Pulmonary Valve Replacement in the Patients with Lately Corrected Tetralogy of Fallot.  
Woojung Kim, Jae Gun Kwak, Woong-Han Kim, Jeong Ryul Lee, Jooncheol Min, Yujin Kwak, Jae Hong Lee  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Children's Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

13:45~15:00 선천성심장질환 III (83~87연제) 좌장: 전태국, 이창하

- 083 Surgical Outcomes of uncrossing Procedure in Patients with Vascular Ring due to Circumflex Aorta  
Ilkun Park, Ji-Hyuk Yang, Yang Hyun Cho, Dong Seop Jeong, Kiick Sung, Wook Sung Kim, Tae-Gook Jun, Young Tak Lee, Pyo Won Park  
Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea
- 084 Coronary Artery Bypass Grafting in Pediatric Patients for Kawasaki Disease  
Yujin Kwak, Jaehong Lee, Jooncheol Min, Sungkyu Cho, Woong-Han Kim  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- 085 Twins with Congenital Heart Disease: Maternal Features, Characteristics of Cardiac Anomaly, and Growth  
Dong-Hee Kim, Sungbin Cho, Bobae Jeon, Won Young Lee, Eun Seok Choi, Bo Sang Kwon, Chun Soo Park, Tae-Jin Yun  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- 086 Usefulness of Mechanical Circulatory Support as a Bridge to Pediatric Heart Transplantation  
Sungkyu Cho, Woong-Han Kim, Yu-Jin Kwak, Jae-Hong Lee, Jooncheol Min, Jae Gun Kwak, Jeong Ryul Lee  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Children's Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea  
지정토론: 신유림(연세대학교 심장혈관병원)
- 087 Extending the Indication for Application of Home-monitoring Program: Tetralogy of Fallot or its Variants  
Dong-Hee Kim<sup>1</sup>, Jung A Kim<sup>2</sup>, Sungbin Cho<sup>1</sup>, Bobae Jeon<sup>1</sup>, Won Young Lee<sup>1</sup>, Eun Seok Choi<sup>1</sup>, Bo Sang Kwon<sup>1</sup>, Chun Soo Park<sup>1</sup>, Tae-Jin Yun<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Nursing, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

15:00~15:30 Coffee Break

장소: 1전시장 (3층)



15:30~17:00

외상, 중환자 (88~94연제)

좌장: 이석기, 김재범

**088 Perioperative Beta-Blocker For Atrial Fibrillation after Cardiac Surgery: A Meta-Analysis**

Sue Hyun Kim<sup>1</sup>, Myoung-jin Jang<sup>2</sup>, Ho Young Hwang<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Medical Research Collaborating Center, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

**089 Outcomes in Influenza A Viral Pneumonia-Related Acute Respiratory Failure Patients with Extracorporeal Membrane Oxygenation Support**

Bong Suk Park, Hyoung Soo Kim

Department of Thoracic and Cardiovascular Surgery, Sacred Heart Hospital, Hanlym University College of Medicine, Gyeonggi-do, Republic of Korea

**090 The Efficacy of Intranasal Mupirocin Prophylaxis in Aortic Surgery: Randomized Controlled Trial**

Myeong Su Kim<sup>1</sup>, Suk-Won Song<sup>2</sup>, Tae-Hoon Kim<sup>2</sup>, Ha Lee<sup>2</sup>, Woon Heo<sup>3</sup>, Kyung-Jong Yoo<sup>4</sup>, Byung Chul Chang<sup>5</sup>, Bum-Koo Cho<sup>6</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Armed Forces Capital Hospital, Gyeonggi-do, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Inje University Haeundae Paik Hospital, Inje University College of Medicine, Busan Republic of Korea, <sup>4</sup>Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>5</sup>Department of Thoracic and Cardiovascular Surgery, CHA Bundang Medical Center, CHA University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>6</sup>The Korea Heart Foundation, Seoul, Republic of Korea

**091 Peripherally Inserted Central Catheter (PICC) Insertion in Intensive Care Unit: How to Reduce Malposition**

Up Huh, Sung Woon Chung, Chung Won Lee, Miju Bae, Seunghwan Song

Department of Thoracic and Cardiovascular Surgery, Pusan National University Hospital, Biomedical Research Institute, Pusan National University College of Medicine, Busan, Republic of Korea

**092 The Role of Multidisciplinary Team Approach for Treatment of Traumatic Aortic Injury: A Single Level I Trauma Center Experience**

Seunghwan Song<sup>1</sup>, Seon Hee Kim<sup>2</sup>, Sang-pil Kim<sup>1</sup>, Hyun Min Cho<sup>2</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Pusan National University Hospital, Biomedical Research Institute, Pusan National University College of Medicine, Busan, Republic of Korea, <sup>2</sup>Department of Trauma and Surgical Critical Care, Pusan National University School of Medicine, Pusan National University Hospital, Pusan National University College of Medicine, Busan, Republic of Korea

**093 Injury Severity Scoring Systems as a Predictor of Renal Replacement Therapy in Chest Trauma**

Do Wan Kim, Kyo Seon Lee, Sang Gi Oh, Yo Chun Jung, Kook Joo Na, Sang Yun Song, In Seok Jeong

Department of Thoracic and Cardiovascular Surgery, Chonnam National University Hospital, Chonnam National University College of Medicine, Gwangju, Republic of Korea

**094 Factors for Affecting Outcomes of Venovenous Extracorporeal Membrane Oxygenation for Traumatic Patients**

Seon Hee Kim<sup>1</sup>, Seunghwan Song<sup>2</sup>, Up Huh<sup>2</sup>, Chan Kyu Lee<sup>1</sup>, Hyn Min Cho<sup>1</sup>

<sup>1</sup>Departments of Trauma Surgery, Pusan National University Hospital Trauma Center, Biomedical Research Institute, Pusan National University College of Medicine, Busan, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Pusan National University Hospital, Biomedical Research Institute, Pusan National University College of Medicine, Busan, Republic of Korea

17:00~18:30

시상식

장소: 컨벤션홀 III

학술상 시상

- 이영균 우수논문상
- 한국심장재단 우수논문상
- 일동 학술상
- Medtronic Award 발표상
- English Competition Forum 발표상
- Forum 발표상
- 우수 포스터상





2019년 10월 25일(금)  
장소: 301+302 강의실



**08:00~10:00 필수과목 연수교육** 좌장: 금동윤

08:00~08:40 Ethics in Cardiothoracic Surgery: Informed Consent and Disclosure  
문병주(Southlake Regional Health Center)

08:40~09:20 연구윤리 강의  
신임희(대구가톨릭대학교 의과대학 의학통계학)

09:20~10:00 의료인에게 필요한 Communication Skill  
이영환(영남대학교의료원 소아청소년과)

10:00~10:30 Coffee Break 장소: 1전시장 (3층)

**11:00~12:30 흉부외과 여의사회 세션 및 정기총회**

11:00~12:00 하지정맥류/심부정맥혈전증 진단을 위한 혈관초음파 검사법(Hands-on 시연)  
박영란 (코니카 미놀타)

**12:00~12:30 여의사회 정기총회**

**11:30~12:30 총회** 장소: 컨벤션홀 III

1. 언론인상 시상
2. 특별공로상 요양 TFT
3. 회무 보고
4. 재무 보고
5. 감사 보고
6. 안건 심의
7. 임원 인준 (제48대 회장단, 이사장 인준)

**12:30~13:30 Luncheon Seminar 5** 좌장: 제형근

<한술카디악케어>  
Perceval(Sutureless Valve)  
이승현(연세대학교 심장혈관병원)

**13:30~17:00 지도전문의 교육**

15:00~15:30 Coffee Break 장소: 1전시장 (3층)

**17:00~18:30 시상식** 장소: 컨벤션홀 III

- 학술상 시상
- 이영균 우수논문상
  - 한국심장재단 우수논문상
  - 일동 학술상
  - Medtronic Award 발표상
  - English Competition Forum 발표상
  - Forum 발표상
  - 우수 포스터상





08:00~08:30

Meet the Expert

좌장: 김한용

Surgery for Cardiac Arrhythmias; discovery and cure

장병철 (차의과학대학교 분당차병원)

08:30~09:30

대동맥, 말초혈관 (95~99연제)

좌장: 조광조, 주석중

**095 Implications of Lower Body Perfusion for Surgeries of Acute Aortic Dissection.**

Ho Hyun Ko, Gu Byung Mo, Weon Yong Lee

Department of Thoracic and Cardiovascular Surgery, Sacred Heart Hospital, Hanllm University College of Medicine, Gyeonggi-do, Republic of Korea

지정토론: 송석원(연세대학교 강남세브란스병원)

**096 Fate of Dilated Ascending Aorta after Aortic Valve Replacement for Bicuspid Versus Tricuspid Aortic Valve Disease**

Min-Seok Kim, Jung Whan Kim, Seung Hyun Lee, Sak Lee, Young-Nam Youn, Kyung-Jong Yoo, Hyun-Chel Choo

Division of Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

**097 Cortical and Subcortical Changes in Resting-state Functional Connectivity during an Episode of Postoperative Delirium : Functional Magnetic Resonance Imaging Study.**

Tae-Hoon Kim<sup>1</sup>, Jooyoung Oh<sup>2</sup>, Jae-Jin Kim<sup>2</sup>, Suk-Won Song<sup>1</sup>, Woon Heo<sup>3</sup>, Kyung-Jong Yoo<sup>4</sup>, Byung Chul Chang<sup>5</sup>, Bum-Koo Cho<sup>6</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea,

<sup>2</sup>Department of Psychiatry, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Thoracic and

Cardiovascular Surgery, Inje University Haeundae Paik Hospital, Inje University College of Medicine, Busan Republic of Korea, <sup>4</sup>Department of Thoracic and

Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>5</sup>Department of Thoracic and

Cardiovascular Surgery, CHA Bundang Medical Center, CHA University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>6</sup>The Korea Heart Foundation, Seoul, Republic of Korea

**098 Clinical Outcome of Surgical Repair with Composite Prosthetic Graft for Abdominal Aortic Aneurysm Accompanied by Iliac Artery Aneurysm**

Bongyeon Sohn, Hakju Kim, Hyoung Woo Chang, Jae Hang Lee, Dong Jung Kim, Jun Sung Kim, Cheong Lim, Kay-Hyun Park

Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Gyeonggi-do, Republic of Korea

**099 Surgical Outcomes of Arteriovenous Graft for Hemodialysis Access in End Stage Renal Disease Patients Whose Cephalic Vein Is Not Preserved**

Joungwoo Son, Jae Wook Ryu, Pil Won Seo, Kyoung Min Ryu

Department of Thoracic and Cardiovascular Surgery, Dankook University Hospital, Dankook University College of Medicine, Chungcheongnam-do, Republic of Korea

09:30~10:00 Coffee Break

장소: 1전시장 (3층)



10:00~11:00 판막, 부정맥, 최소침습 (100~104연제) 좌장: 제형곤, 김준범

- 100 The 10-year Single Institute Experience of Minimally Invasive Cardiac Surgery: From 0 to 1085 Case**  
Hyung Gon Je, Ji Hye Lee, Hye Rim Oh, Min ho Ju, Chee-Hoon Lee  
 Department of Cardiovascular and Thoracic Surgery, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea
- 101 Three-dimensional Totally Endoscopic Reoperative Mitral Valve Surgery with Fibrillatory Arrest (Aortic No-touch Technique)**  
Jae Suk Yoo, Wan Kee Kim, Sang Yoon Yeom, Hee Moon Lee, Dong Jin Kim, Kwang Ree Cho  
 Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea
- 102 Clinical Outcomes and Mitral Valve Durability after Robotic Mitral Valve Repair in Consecutive 450 Patients; A Single- center Experience**  
Won Kyung Pyo, Ho Jin Kim, Jae Won Lee  
 Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- 103 Is the Blanking Period of 3 Months after Surgical Ablation Appropriate?**  
Mi Hee Lim, Min-Ho Ju, Chee Hoon Lee, Chang Hun Kim, Hyung Gon Je  
 Department of Thoracic and Cardiovascular Surgery, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea
- 104 The Correlation between Adipose Component in the LA Appendage and Recurrence of Atrial Fibrillation after Modified Cox-Maze III Operation from Human Tissue Pathologic Analysis**  
Hyohyun Kim<sup>1</sup>, Joon-young Song<sup>1</sup>, Tae-Hoon Kim<sup>2</sup>, Jung Whan Kim<sup>1</sup>, Hyun-Chel Choo<sup>1</sup>, Sak Lee<sup>1</sup>, Young-Nam Youn<sup>1</sup>, Kyung-Jong Yoon<sup>1</sup>, Seung-Hyun Lee<sup>1</sup>  
<sup>1</sup>Division of Cardiovascular Surgery, Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

11:00~12:00 경품 추첨 및 폐회식 장소: 컨벤션홀 II

1. 역사기록보존위원회 퀴즈 행운상
2. 후원사 부스 참관 경품 추첨



11:00~12:00

Video Session (1~8연제)

좌장: 김문수, 정성호

- V 01 Robotic End-to-end Anastomosis of Incidentally Injured Right Gastroepiploic Artery during Total Robotic Esophagectomy**  
Kwon Joong Na, Chang Hyun Kang, Samina Park, In Kyu Park, Young Tae Kim  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- V 02 Robotic Solo Surgery through Two Port Approach for Pulmonary Left Upper Lobectomy with Mediastinal Lymph Node Dissection after Neoadjuvant Concurrent Chemoradiotherapy**  
Jeong In Hong, Hyun Koo Kim, Kook Nam Han, Young Ho Choi  
Department of Thoracic and Cardiovascular Surgery, Korea University Guro Hospital, Korea University College of Medicine, Seoul, Republic of Korea
- V 03 3-port VATS Lobectomy using Subxiphoid and Subcostal Space**  
Hyo Jun Jang<sup>1</sup>, Lee Jun Ho<sup>1</sup>, Hyuck Kim M.D<sup>1,2</sup>, Won-Sang Chung<sup>1,2</sup>, Young Hak Kim<sup>1,2</sup>  
<sup>1</sup>Hanyang University Medical Center, Hanyang University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Hanyang University College of Medicine, Seoul, Republic of Korea
- V 04 Dissection of Anterior Thoracic Para-aortic Lymph Nodes during the Thoracoscopic Esophagectomy for Esophageal Squamous Cell Carcinoma**  
Ha Eun Kim, Seong Yong Park, Dae Joon Kim, Jee Won Suh, Chang Young Lee, Jin Gu Lee, Hyo Chae Paik, Kyoung Young Chung  
Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- V 05 Left Ventricular Enlargement Procedure in a Patient with a Diffuse Type Hypertrophic Cardiomyopathy**  
Dong Youb Han, Sung Jun Park, Sung Ho Jung  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- V 06 Bentall Operation using Sub-annular Anchored Inverted Graft and Rapid Deployment Valve in Cardiac Behçet's Disease**  
Chee-Hoon Lee, Min Ho Ju, Hyung Gon Je  
Department of Cardiovascular and Thoracic Surgery, Research Institute for Convergence of Biomedical Science and Technology, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea
- V 07 Prosthetic Valve Endocarditis Associated with TAVI**  
Dong Jin Kim  
Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea
- V 08 Total Arch Replacement in Patient with Prior Hemiarch Aortic Graft Infection**  
Hyung Tae Sim, Min Seop Jo, Soohwan Choi, Yong Jin Chang, Deog Gon Cho, Kyu Do Cho  
Department of Thoracic and Cardiovascular Surgery, St. Vincent's Hospital, The Catholic University College of Medicine, Gyeonggi-do, Republic of Korea





08:00~08:30 Meet the Expert

좌장: 이성수

흉벽기형 교정수술법의 문제점과 해결책

1부: 도전과 응전의 20년

2부: 신사고에 의한 미래 수술법

박형주(가톨릭대학교 서울성모병원)

08:30~09:30 폐암 III (105~109연제)

좌장: 강창현, 김영대

**105 Dual Visualization of Pulmonary Nodule and Intersegmental Plane under Fluorescent Images during Pulmonary Segmentectomy**

Hyun Koo Kim, Yeasul Kim, Kook Nam Han, Jeong In Hong, Young Ho Choi

Departments of Thoracic and Cardiovascular Surgery, Korea University Guro Hospital, Korea University College of Medicine, Seoul, Republic of Korea

**106 Genetic Features of Ground-glass Opacity-type Lung Adenocarcinoma: What Causes the Invasiveness of Lung Adenocarcinoma?**

Jong-Young Lee<sup>1</sup>, Jin Young Yoo<sup>2</sup>, Jun Yeun Cho<sup>3</sup>, Dohun Kim<sup>4</sup>

<sup>1</sup>Institute of Genomic Health, Oneomics Co., Ltd., Seoul, Republic of Korea, <sup>2</sup>Department of Radiology, Chungbuk National University Hospital, Chungbuk National University College of Medicine, Chungcheongbuk-do, Republic of Korea, <sup>3</sup>Division of Pulmonary and Critical Care Medicine, Department of Internal Medicine, Chungbuk National University Hospital, Chungbuk National University College of Medicine, Chungcheongbuk-do, Republic of Korea, <sup>4</sup>Department of Thoracic and Cardiovascular Surgery, Chungbuk National University Hospital, Chungbuk National University College of Medicine, Chungcheongbuk-do, Republic of Korea

**107 Recent Trends in Demographics, Surgery, and Prognosis of Patients with Surgically Resected Lung Cancer in a Single Institution from South Korea**

Jae Kwang Yun<sup>1</sup>, Han Pil Lee<sup>2</sup>, Geun Dong Lee<sup>1</sup>, Hyeong Ryul Kim<sup>1</sup>, Yong-Hee Kim<sup>1</sup>, Dong Kwan Kim<sup>1</sup>, Seung-Il Park<sup>1</sup>, Sehoon Choi<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Kangwon National University Hospital, Kangwon National University College of Medicine, Gangwon-do, Republic of Korea

**108 Pathologic Tumor Response after Neoadjuvant Concurrent Chemoradiotherapy in Stage IIIA(N2) Non-small Cell Lung Cancer: Implication of major Pathologic Response and Residual Tumor Cells on the Systemic Failure**

Junghee Lee<sup>1</sup>, Hyunjin Kim<sup>2</sup>, Yong Soo Choi<sup>1</sup>, Joung-ho Han<sup>2</sup>, Sumin Shin<sup>1</sup>, Jong Ho Cho<sup>1</sup>, Hong Kwan Kim<sup>1</sup>, Jhingook Kim<sup>1</sup>, Jae Ill Zo<sup>1</sup>, Young Mog Shim<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Pathology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

**109 Risk Factors of Surgical Resection for Lung Cancer Patients with Idiopathic Pulmonary Fibrosis Incidentally found on Preoperative Chest Computed Tomography**

Seok Kim<sup>1</sup>, Do Wan Kim<sup>2</sup>, Ju Sik Yun<sup>1</sup>, Kyo Seon Lee<sup>2</sup>, In Seok Jeong<sup>2</sup>, Sang Yun Song<sup>1</sup>, Kook Joo Na<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Chonnam National University Hwasun Hospital, Chonnam National University College of Medicine, Jeollanam-do, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Chonnam National University Hospital, Chonnam National University College of Medicine, Gwangju, Republic of Korea

09:30~10:00 Coffee Break

장소: 1전시장 (3층)



10:00~11:00

일반홍부 II (110~114연제)

좌장: 황상원, 김현구

**110 Prognosis of Repeated Pulmonary Metastasectomy for Isolated Pulmonary Recurrence after Initial Pulmonary Metastasectomy in Patients with Colorectal Cancer**

Sumin Shin, Tae Ho Kim, Jong Ho Cho, Yong Soo Choi, Jhingook Kim, Jae Ill Zo, Young Mog Shim, Hong Kwan Kim  
Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

**111 Long-term outcome after lung transplantation based on chronic rejection**

Jee Won Suh<sup>1</sup>, Ha Eun Kim<sup>1</sup>, Seong Yong Park<sup>1</sup>, Chang Young Lee<sup>1</sup>, Jin Gu Lee<sup>1</sup>, Dae Joon Kim<sup>1</sup>, Kyoung Young Chung<sup>1</sup>, Su Jin Jeong<sup>2</sup>, Moo Suk Park<sup>3</sup>, Song Yee Kim<sup>3</sup>, Hyo Chae Paik<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Division of Infectious Disease, Department of Internal Medicine, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Division of Pulmonology, Department of Internal Medicine, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

**112 ECMO Support as a Bridge to Lung Transplantation; Comparison of Results before and after the Introduction of Oxy RVAD**

Sung Kwang Lee, So Hyung Kim, Do Hyung Kim

Department of Thoracic and Cardiovascular Surgery, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea

**113 Clinical Outcomes of Thoracoscopic Surgery under Local Anesthesia for Primary Spontaneous Pneumothorax**

Hyo Yeong Ahn, Eunji Kim

Department of Thoracic and Cardiovascular Surgery, Medical Research Institute, Pusan National University Hospital, Pusan National University College of Medicine, Busan, Republic of Korea

**114 Risk Factors and Treatment Outcome of Post-Pneumonectomy Bronchopleural Fistula (BPF)**

Soo Hwan Choi<sup>1</sup>, Yong Jin Chang<sup>1</sup>, Jong Hee Seo<sup>2</sup>, Young Jo Sa<sup>3</sup>, Jung Suk Choi<sup>4</sup>, Jae Shin Yoon<sup>4</sup>, Seok Whan Moon<sup>4</sup>, Jae Kil Park<sup>4</sup>, Deog gon Cho<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, St. Vincent's Hospital, The Catholic University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Incheon St. Mary's Hospital, The Catholic University College of Medicine, Incheon, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Yeouido St. Mary's Hospital, The Catholic University College of Medicine, Seoul, Republic of Korea, <sup>4</sup>Department of Thoracic and Cardiovascular Surgery, Seoul St. Mary's Hospital, The Catholic University College of Medicine, Seoul, Republic of Korea

11:00~12:00

경품 추첨 및 폐회식

1. 역사기록보존위원회 퀴즈 행운상
2. 후원사 부스 참관 경품 추첨

11:00~12:00

Video Session (1~8연제)

좌장: 김문수, 정성호

장소: 컨벤션홀 III



2019년 10월 24일(목)  
장소: 컨벤션홀 II+III



16:00~17:30

Forum, Cardiac (English) (1~8연제)

좌장: 황호영, 김호진

- E 01 Intra-atrial Tunnel Creation for Left Ventricular Inflow in Pediatric Ventricular Assist Device Implantation**  
Ha Lee, Han Ki Park, Yu Rim Shin  
Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- E 02 Structural Valve Deterioration after Bioprosthetic Tricuspid Valve Replacement**  
Yoonjin Kang, Ho Young Hwang, Suk Ho Sohn, Jae Woong Choi, Kyung Hwan Kim, Ki-Bong Kim  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- E 03 Mechanical Versus Biologic Prostheses in Mitral Valve Replacement According to Age Groups**  
Dong Youb Han, Sung Jun Park, Ho Jin Kim, Joon Bum Kim, Sung Ho Jung, Suk Jung Choo, Cheol Hyun Chung, Jae Won Lee  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- E 04 Robot-assisted Repair of Atrial Septal Defect: Comparison of Beating Versus Non-beating Approach**  
Taeyoung Yun, Bongyeon Sohn, Hakju Kim, Hyoung Woo Chang, Jae Hang Lee, Dong Jung Kim, Jun Sung Kim, \*Cheong Lim, Kay-Hyun Park  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Gyeonggi-do, Republic of Korea
- E 05 Anatomical Eligibility for Endovascular Aortic Repair for Ruptured Abdominal Aortic Aneurysm : Is It Real?**  
Hyonkeun Joh<sup>1</sup>, Hyun Su Lee<sup>1</sup>, Tae-Hoon Kim<sup>1</sup>, Suk-Won Song<sup>1</sup>, Ha Lee<sup>1</sup>, Myeong Su Kim<sup>2</sup>, Woon Heo<sup>3</sup>, Kyung-Jong Yoo<sup>4</sup>, Byung Chul Chang<sup>5</sup>, Bum-Koo Cho<sup>6</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Armed Forces Capital Hospital, Gyeonggi-do, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Inje University Haeundae Paik Hospital, Inje University College of Medicine, Busan Republic of Korea, <sup>4</sup>Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>5</sup>Department of Thoracic and Cardiovascular Surgery, CHA Bundang Medical Center, CHA University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>6</sup>The Korea Heart Foundation, Seoul, Republic of Korea
- E 06 Zone Zero Hybrid TEVAR Outcomes ; Single Center Experience**  
Yong Woo Chung, Jae Woong Choi, Kyung Hwan Kim  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- E 07 Comparison of Minimally Invasive Approach with Conventional Sternotomy in Reoperative Mitral Valve Surgery after Previous Sternotomy**  
Yelee Kwon, Sung Jun Park, Ho Jin Kim, Joon Bum Kim, Sung-Ho Jung, Suk Jung Choo, Cheol Hyun Chung, Jae Won Lee  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- E 08 18-year Outcomes of Redo Coronary Artery Bypass Grafting**  
Seung Hyun Kim, Ho Young Hwang, Ki Bong Kim, Hea Ju Lee  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea



2019년 10월 24일(목)  
장소: 컨벤션홀 I



16:00~17:30

Forum, General Thorax (English) (9~16 연제)

좌장: 김홍관, 성용원

## E 09 Operative Indications and Choice of Surgical Approach for Diaphragmatic Hernia Repair

Suk Kyung Lim, Sumin Shin, Hong Kwan Kim, Yong Soo Choi, Jhingook Kim, Jae Ill Zo, Young Mog Shim, Jong Ho Cho  
Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea

## E 10 To Avoid Compensatory Hyperhidrosis after Sympathetic Surgery for Craniofacial Hyperhidrosis

Young Ho Yang, Younsoo Seo, Duk Hwan Moon, Sungsoo Lee  
Department of Thoracic and Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea

## E 11 Stapling the Fissural Planes can Reduce Pulmonary Function after Right upper Lobectomy

Sun-keun Lee<sup>1</sup>, Won Kyoung Park<sup>1</sup>, Sang Ho Cho<sup>1</sup>, Dae Hyun Kim<sup>1</sup>, Young Tae Kwak<sup>1</sup>, Seung-hyong Lee<sup>2</sup>, Hyo Chul Youn<sup>2</sup>,  
Soo Cheol Kim<sup>2</sup>, Bum Shik Kim<sup>2</sup>, Joo Chul Park<sup>2</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Kyung Hee University Hospital at Gangdong, Kyung Hee University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Kyung Hee University Hospital, Kyung Hee University College of Medicine, Seoul, Republic of Korea

## E 12 The First Universal Modular Chest Wall Reconstruction System–Multipurpose Self-Assembly Titanium Metal Plates

Joonsuk Park  
Department of Thoracic Surgery, CHA Bundang Medical Center, CHA University College of Medicine, Gyeonggi-do, Republic of Korea

## E 13 Deep Neuromuscular Blockade during One-lung Ventilation may Not Affect Postoperative Pulmonary Atelectasis

Seung-hyong Lee<sup>1</sup>, Hyo Chul Youn<sup>1</sup>, Soo Cheol Kim<sup>1</sup>, Bum Shik Kim<sup>1</sup>, Joo Chul Park<sup>1</sup>, Sun-keun Lee<sup>2</sup>, Won Kyoung Park<sup>2</sup>,  
Sang Ho Cho<sup>2</sup>, Dae Hyun Kim<sup>2</sup>, Young Tae Kwak<sup>2</sup>, Hyungseok Seo<sup>3</sup>, Han-Na Lee<sup>4</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Kyung Hee University Hospital, Kyung Hee University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Kyung Hee University Hospital at Gangdong, Kyung Hee University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Anesthesiology and Pain Medicine, Kyung Hee University Hospital, Kyung Hee University College of Medicine, Seoul, Republic of Korea, <sup>4</sup>Department of Radiology, Kyung Hee University Hospital at Gangdong, Kyung Hee University College of Medicine, Seoul, Republic of Korea

## E 14 Clinical Feasibility and Efficacy of MRI Lymphangiography and Thoracic Duct Embolization (TDE) in Thoracic Surgery-related Chyle Leak

Fahd Al Abbood, Seungmo Yoo, Jae Kwang Yun, Yong-Hee Kim  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

## E 15 Comparison of Single versus Three Intercostal Nerve Block by Continuous Extrapleural Analgesia in Single Incisional Thoracoscopic Bullae Resection

Jeong In Hong, Kook Nam Han, Hyun Koo Kim, Young Ho Choi  
Department of Thoracic and Cardiovascular Surgery, Korea University Guro Hospital, Korea University College of Medicine, Seoul, Republic of Korea

## E 16 Selective Lymph Node Dissection in Non-Small Cell Lung Cancer Stage IA: Retrospective Cohort Study

Tariq Ziad Abughararah, Fahd Alabood, Yooyoung Chong, Jae Kwang Yun, Yong Ho Jeong, Sehoon Choi, Hyeong Ryul Kim, Yong-Hee Kim, Dong Kwan Kim, Seung-Il Park, Geun Dong Lee  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea



2019년 10월 25일(금)  
장소: 컨벤션홀 III



13:30~15:00

포럼 I (1~12연제)

좌장: 최재성, 송석원

- F 01 Impact of Surgical Ablation of Atrial Fibrillation in Patients Undergoing Bioprosthetic Valve Replacement**  
WonKyung Pyo, Ho Jin Kim, Joon Bum Kim  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- F 02 Safety and Efficacy of Left Atrial Appendage Excision Using Vascular Stapler**  
Ji Hyeon Park<sup>1</sup>, Suk Ho Sohn<sup>1</sup>, Jae Woong Choi<sup>1</sup>, Eun Ah Park<sup>2</sup>, Ho Young Hwang<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Radiology, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
- F 03 Impact of Concomitant Left Atrial Reduction during Surgical Ablation in Patients with Atrial Fibrillation Undergoing Major Cardiac Surgery**  
Wooseok Choi, Ho Jin Kim, Sung-Ho Jung, Suk Jung Choo, Cheol Hyun Chung, Jae Won Lee, Joon Bum Kim  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- F 04 Temporal Pattern of Aortic Remodeling after Endovascular Treatment for Chronic DeBakey IIIb Aneurysm**  
Tae-Hoon Kim<sup>1</sup>, Suk-Won Song<sup>1</sup>, Ha Lee<sup>1</sup>, Myeong Su Kim<sup>2</sup>, Woon Heo<sup>3</sup>, Kyung-Jong Yoo<sup>4</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Armed Forces Capital Hospital, Gyeonggi-do, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Inje University Haeundae Paik Hospital, Inje University College of Medicine, Busan Republic of Korea, <sup>4</sup>Department of Thoracic and Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- F 05 The use of Available Echocardiographic Parameters for Diagnosis of Diastolic Dysfunction after Valvular Heart Surgery**  
Young Eun Kim, Tak Hyuk Oh, Chae Min Bae, Hanna Jung, Joon Young Cho, Gun-Jik Kim  
Department of Thoracic and Cardiovascular Surgery, Kyungpook National University Hospital, Kyungpook National University College of Medicine, Daegu, Republic of Korea
- F 06 The Surgical Outcomes of Infective Endocarditis: A 12-year Retrospective Single Center Cohort Study**  
Hyo-Hyun Kim, Hi Jae Lee, Jung-hwan Kim, Hyun-Chel Choo, Sak Lee, Young-Nam Youn, Kyung-Jong Yoo, Seung Hyun Lee  
Division of Cardiovascular Surgery, Severance Cardiovascular Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- F 07 Long term Outcome of Mitral Valve Repair using Artificial Ring and Chordae without Leaflet Resection in Adult Patients with Rheumatic and Degenerative Mitral Regurgitation (MR)**  
Yang Gi Ryu, Man-Jong Baek  
Department of Thoracic and Cardiovascular Surgery, Korea University Guro Hospital, Korea University College of Medicine, Seoul, Republic of Korea
- F 08 Usefulness Skin Perfusion Pressure for Predicting Access-related Hand Ischemia after Arteriovenous Fistula for Hemodialysis**  
Miju Bae, Sung Woon Chung, Chung Won Lee, Up Huh  
Department of Thoracic and Cardiovascular Surgery, Pusan National University Hospital, Pusan National University College of Medicine, Busan, Republic of Korea



2019년 10월 25일(금)  
장소: 컨벤션홀 III



**F 09 A Zebrafish Thrombosis Model for Testing Thrombolytic Agents**

Jinwook Hwang<sup>1</sup>, Soonil Koun<sup>2</sup>, Young Ran Ha<sup>2</sup>, Jin-man Jung<sup>3</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Korea University Ansan Hospital, Korea University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>2</sup>Biomedical Research Center, Korea University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>3</sup>Department of Neurology, Korea University Ansan Hospital, Korea University College of Medicine, Gyeonggi-do, Republic of Korea

**F 10 Heart Transplantation in Non-capital Regional Center: A Single Center Experience**

Min Ho Ju, Chee-Hoon Lee, Hyung Gon Je

Department of Cardiovascular and Thoracic Surgery, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea

**F 11 Early and Midterm Results of Carotid Endarterectomy using Bovine Pericardial Patch Closure under the Surveillance of Near-Infrared Spectroscopy**

Sun-hyun Hwang, Tae Hong Yoon, Jun Woo Cho, Jae Seok Jang, Oh Choon Kwon

Department of Thoracic and Cardiovascular Surgery, Daegu Catholic University Medical Center, Daegu Catholic University College of Medicine, Daegu, Republic of Korea

**F 12 Pre-primed ECMO Circuit for ECPR**

Ji Eon Kim, Hee Jung Kim, Ho Sung Son, Jae-Seung Jung

Department of Thoracic and Cardiovascular Surgery, Korea University Anam Hospital, Korea University College of Medicine, Seoul, Republic of Korea



2019년 10월 25일(금)  
장소: 컨벤션홀 II



13:30~15:00

포럼 II (13~24연제)

좌장: 김형렬, 강민웅

- F 13 Comparison of the Analgesic Effect between Ultrasound-Guided Serratus Anterior Plane Block and Intercostal Nerve Block after Single Port Video-Assisted Thoracoscopic Surgery in Primary Spontaneous Pneumothorax; A Prospective Randomized Study.**  
Chae-Min Bae, Young Woo Do, Deok Heon Lee  
Department of Thoracic and Cardiovascular Surgery, School of Medicine, Kyungpook National University Hospital, Kyungpook National University College of Medicine, Daegu, Republic of Korea
- F 14 Analysis of Mediastinal Node Metastasis in Patients with Clinical Early Stage (I-IIA) Non-small Cell Lung Cancer**  
Yooyoung Chong, Jae Kwang Yun, Yong Ho Jeong, Geun Dong Lee, Sehoon Choi, Hyeong Ryul Kim, Yong-Hee Kim, Seung-Il Park, Dong Kwan Kim  
Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea
- F 15 Operative Outcomes of Anterior Mediastinal Tracheostomy for Cervicothoracic Malignancies**  
Hyun Soo Lee, Seong Yong Park, Dae Joon Kim, Jee Won Suh, Chang Young Lee, Jin Gu Lee, Hyo Chae Paik, Kyoung Young Chung  
Department of Thoracic and Cardiovascular Surgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea
- F 16 Comparison of Recurrence Pattern and Dynamics between Resected N1 Lung Adenocarcinoma and Lung Squamous Cell Carcinoma**  
Tae Ho Kim, Jung Hee Lee, Byung Jo Park, Sumin Shin, Hong Kwan Kim, Yong Soo Choi, Jae Ill Zo, Young Mog Shim, Jong Ho Cho, Jhingook Kim  
Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea
- F 17 Outcomes of Sleeve Lobectomy by Video-assisted Thoracoscopic Surgery(VATS) Versus Thoracotomy**  
You Jin Ha, Yong Soo Choi  
Department of Thoracic and Cardiovascular Surgery, Samsung Medical Center Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea
- F 18 Clinical Results of Presence of Spread Through Air Spaces (STAS) in Neuroendocrine Tumors**  
Mincheol Chae, Sukki Cho, Sungwon Yum, Woohyun Jung, Wan Jin Hwang, Soyoung Lee, Youhwa Hwang, Jae Hyun Jeon, Kwahnmien Kim, Sanghoon Jheon  
Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seoul National University College of Medicine, Gyeonggi-do, Republic of Korea
- F 19 Comparative Analysis between ECMO Supported Trachea Resection and End to End Anastomosis (TREE) and Conventional TREE : 19 Years Clinical Experience of TREE**  
Joohyung Son<sup>1</sup>, Yeong Dae Kim<sup>2</sup>, Do Hyung Kim<sup>1</sup>, Bong Soo Son<sup>1</sup>, Sung Kwang Lee<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Pusan National University Yangsan Hospital, Pusan National University College of Medicine, Gyeongsangnam-do, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Pusan National University Hospital, Pusan National University College of Medicine, Busan, Republic of Korea
- F 20 Solid Predominant Subtype is an Independent Risk Factor for Recurrence in Patients with Pathologic Stage I Adenocarcinoma**  
Kisung Park, Taehong Yun, Chihoon Bae  
Department of Thoracic and Cardiovascular Surgery, Daegu Catholic University Medical Center, Daegu Catholic University College of Medicine, Daegu, Republic of Korea



2019년 10월 25일(금)  
장소: 컨벤션홀 II



**F 21 Clinical Implication of STAS (Tumor spread through air spaces) in Stage I (AJCC 8th edition) Lung Adenocarcinoma Treated with Lobectomy**

Younggi Jung<sup>1</sup>, Eunjue Yi<sup>1</sup>, Jeong Hyeon Lee<sup>2</sup>, Jae Ho Chung<sup>1</sup>, Youngseok Lee<sup>2</sup>, Sungho Lee<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Korea University Anam Hospital, Korea University College of Medicine, Seoul, Republic of Korea,

<sup>2</sup>Department of Pathology, Korea University Anam Hospital, Korea University College of Medicine, Seoul, Republic of Korea

**F 22 Rib Cage Reconstruction with 3D-Printed Titanium Implant for Anterior Chest Wall Sarcoma: The First Case in Korea**

Byungjoon Park<sup>1</sup>, Min Jae Cha<sup>2</sup>, Hyung Giun Kim<sup>3</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Chung-Ang University Hospital, Chung-Ang University College of Medicine, Seoul, Republic of Korea,

<sup>2</sup>Department of Radiology, Chung-Ang University Hospital, Chung-Ang University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Gangwon Regional Division, Korea Institute of Industrial Technology, Gangwon-do, Republic of Korea

**F 23 Changes of the Mediastinal Position after Pneumonectomy**

Seungwook Lee, Seokjin Haam, Jeonga Son, Joonho Jung, Woosik Yu

Department of Thoracic and Cardiovascular Surgery, Ajou University Hospital, Ajou University School of Medicine, Gyeonggi-do, Republic of Korea

**F 24 Fate of Contralateral Asymptomatic Bullae in Patient with Primary Spontaneous Pneumothorax**

Hyo Jun Jang<sup>1</sup>, Jun Ho Lee<sup>1</sup>, Seung Hyuk Nam<sup>2,3</sup>, Seung Kyun Ro<sup>2</sup>

<sup>1</sup>Hanyang University Medical Center, Hanyang University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Hanyang University Guri Hospital, Hanyang University College of Medicine, Gyeonggi-do, Republic of Korea, <sup>3</sup>Hanyang University College of Medicine, Seoul, Republic of Korea



2019년 10월 25일(금)  
장소: 컨벤션홀 I



13:30~13:45

포럼 III (25~26연제)

좌장: 전태국, 이창하

**F 25 A single-center Experience of Pediatric Extracorporeal Membrane Oxygenation in Neonates with Congenital Diaphragmatic Hernia**

Wooseok Choi, Eun Seok Choi, Tae-Jin Yun, Chun Soo Park

Division of Pediatric Cardiac Surgery, Department of Thoracic and Cardiovascular Surgery, Asan Medical Center, Ulsan University College of Medicine, Seoul, Republic of Korea

**F 26 The Effectiveness of Pulmonary Valve Replacement in the Patients with Lately Corrected Tetralogy of Fallot.**

Woojung Kim, Jae Gun Kwak, Woong-Han Kim, Jeong Ryul Lee, Jooncheol Min, Yujin Kwak, Jae Hong Lee

Department of Thoracic and Cardiovascular Surgery, Seoul National University Children's Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea



2019년 10월 24일(목)~26일(토)  
장소: 1전시장 (3층)



- 01 Clinical Application of Vacuum Bell Therapy for Pectus Excavatum; finding Suitable Candidates.**  
Yonggi Jung<sup>1</sup>, Eunjue Yi<sup>1</sup>, Jae Ho Chung<sup>1</sup>, Sungho Lee<sup>1</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Korea University Anam Hospital, Korea University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Pathology, Korea University Anam Hospital, Korea University College of Medicine, Seoul, Republic of Korea
- 02 Total arch Replacement after Failed TEVAR in Ruptured Traumatic Aortic Dissection**  
Su Young Yoon, Si-Wook Kim, Do-hoon Kim, Jong-Myeon Hong  
Trauma Center, Department of Thoracic and Cardiovascular Surgery, Chungbuk National University Hospital, Chungbuk National University College of Medicine, Chungcheongbuk-do, Republic of Korea
- 03 Changes of Costoclavicular Space after Nuss Procedure for Pectus Excavatum**  
Eun Young Rha<sup>1</sup>, Jin Yong Jeong<sup>2</sup>, Do Yeon Kim<sup>2</sup>, Jong Hui Suh<sup>2</sup>  
<sup>1</sup>Department of Plastic Surgery, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Incheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea
- 04 Minimally Invasive Approach using the Double Orifice Technique for Traumatic Tricuspid Regurgitation**  
Chan Kyu Lee<sup>1</sup>, Jae Hoon Jang<sup>2</sup>, Nahyeon Lee<sup>3</sup>, Seunghwan Song<sup>3</sup>  
<sup>1</sup>Department of Trauma Surgery, Pusan National University School of Medicine, Biomedical Research Institute, Pusan National University Hospital Trauma Center, Busan, Republic of Korea, <sup>2</sup>Department of Orthopedic Surgery, Pusan National University School of Medicine, Biomedical Research Institute, Pusan National University Hospital Trauma Center, Busan, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Pusan National University School of Medicine, Biomedical Research Institute, Pusan National University Hospital Trauma Center, Busan, Republic of Korea
- 05 Delayed Development of Coronary Artery Dissection after Blunt Chest Trauma**  
Joong Hwan Oh, Il Hwan Park, Soon Chang Hong, Chun Sung Byun, Chang Wan Kim  
Department of thoracic and Cardiovascular Surgery, Wonju Severance Christian Hospital, Yonsei University College of Medicine, Gangwon-do, Republic of Korea
- 06 Brachiocephalic Vein Aneurysm Treated with Surgery: A Case Report**  
Juhyun Lee, Il-Yong Han, Young Chul Yoon, Yang-Haeng Lee, Jin Hong Wi  
Department of Thoracic and Cardiovascular Surgery, Inje University Busan Paik Hospital, Inje University College of Medicine, Busan, Republic of Korea
- 07 Huge Primary Pleural Cyst Mimicking Exophytic Echinococcal Cyst**  
Jaeshin Yoon, Jiyun Lee, Jung Suk Choi, Kwanyong Hyun, Mi Hyung Moon, Seok Whan Moon, Jae Kil Park, Kyung Soo Kim  
Department of Thoracic and Cardiovascular Surgery, Seoul St. Mary's Hospital, The Catholic University College of Medicine, Seoul, Republic of Korea
- 08 The Simulated Microgravity affected on Proliferation and Migration Differently between Adenocarcinoma and Squamous Cell Carcinoma of the Lung**  
Kuk Hui Son<sup>3</sup>, Chi Bum Ahn<sup>1</sup>, Ji-Hyun Lee<sup>1</sup>, Sung-Ho Lee<sup>2</sup>, Jin Woo Lee<sup>1</sup>  
<sup>1</sup>Department of Molecular Medicine, Gachon University College of Medicine, Incheon, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Korea University Anam Hospital, Korea University College of Medicine, Seoul, Republic of Korea, <sup>3</sup>Department of Thoracic and Cardiovascular Surgery, Gachon University Gil Medical Center, Gachon University College of Medicine, Incheon, Republic of Korea
- 09 Giant Bullae Mistaken for Tension Pneumothorax**  
Se Min Ryu, Kyung-Hak Lee, Sung-Min Park, Seong-Joon Cho, Han Pil Lee, Se-Ran Yang, Ki Hwan Kim, Jung Eui Yun, Jin Soo Lee, Hye Jin Park, Young Heon Park, Jooyeon Lee, Hanbyeol Lee  
Department of Thoracic and Cardiovascular Surgery, Kangwon National University Hospital, Kangwon National University College of Medicine, Gangwon-do, Republic of Korea



2019년 10월 24일(목)~26일(토)  
장소: 1전시장 (3층)



- 10 **Aberrant Bronchial Artery from Subclavian Artery : A Rare Anomaly Presenting with Refractory Hemoptysis**  
Hyun Ah Yim, Kyung Soo Kim  
Department of Thoracic and Cardiovascular Surgery, Seoul St. Mary's Hospital, The Catholic University College of Medicine, Seoul, Republic of Korea
- 11 **Successful Management of Foreign Prosthetic Implant Infection in Chest Wall Diseases: 2 Cases**  
Sung Hwan Kim, Jae Jun Jung, Dong Hoon Kang, Seong Ho Moon, Jun Ho Yang, Joung Hun Byun, Jong Woo Kim  
Department of Thoracic and Cardiovascular Surgery, Gyeongsang National University Changwon Hospital, Gyeongsang National University School of Medicine, Gyeongnam, Republic of Korea
- 12 **Thoroscopic Thymothymectomy in Patient with Myasthenia Crisis and Takotsubo Cardiomyopathy**  
Hee Kyung Kim, Kyung Soo Kim  
Department of Thoracic and Cardiovascular Surgery, Seoul St. Mary's Hospital, The Catholic University College of Medicine, Seoul, Republic of Korea
- 13 **Effective Treatment of Secondary Pneumothorax by Packing Method**  
Sung Joon Park, Jae Hoon Lee, Eui Suk Chung  
Department of Thoracic and Cardiovascular Surgery, Inje University Sanggye Paik Hospital, Inje University College of Medicine, Seoul, Republic of Korea
- 14 **Case Report : Thoroscopic Enucleation Of Neurilemmoma At The Thoracic Apex Of Two Patients**  
Sun-keun Lee<sup>1</sup>, Won Kyoung Park<sup>1</sup>, Sang Ho Cho<sup>1</sup>, Dae Hyun Kim<sup>1</sup>, Young Tae Kwak<sup>1</sup>, Seung-hyong Lee<sup>2</sup>, Hyo Chul Youn<sup>2</sup>, Soo Cheol Kim<sup>2</sup>, Bum Shik Kim<sup>2</sup>, Joo Chul Park<sup>2</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Kyung Hee University Hospital at Gangdong, Kyung Hee University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Kyung Hee University Hospital, Kyung Hee University College of Medicine, Seoul, Republic of Korea
- 15 **Successful Surgical Management of Right Ventricular Thrombosis and Chronic Pulmonary Thromboembolism in a Child With Acute Lymphoblastic Leukemia**  
Jiyun Lee, Cheul Lee  
Department of Thoracic and Cardiovascular Surgery, Seoul St. Mary's Hospital, The Catholic University College of Medicine, Seoul, Republic of Korea
- 16 **Echocardiographic Parameter to Predict LV Systolic Functional Improvement after OPCAB for Severe LV Dysfunction**  
Sahn Yoon Yeom, Heemoon Lee, Hee Jung Kim, Jae Suk Yoo, Dong Jin Kim, Kwang Ree Cho  
Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea
- 17 **Surgical Treatment for Right Atrial Appendage Aneurysm with Persistent Atrial Fibrillation**  
Seung Hyuk Nam, Sun Kyun Ro  
Department of Thoracic and Cardiovascular Surgery, Hanyang University Guri Hospital, Hanyang University College of Medicine, Gyeonggi-do, Republic of Korea
- 18 **Unusual Location of Cardiac Fibroelastoma ; Two Case Reports**  
Jae Hoon Lee<sup>1</sup>, Eui Suk Chung<sup>1</sup>, Sung Joon Park<sup>1</sup>, Hyun-Jung Kim<sup>2</sup>  
<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Inje University Sanggye Paik Hospital, Inje University College of Medicine, Seoul, Republic of Korea, <sup>2</sup>Department of Pathology, Inje University Sanggye Paik Hospital, Inje University College of Medicine, Seoul, Republic of Korea
- 19 **Ascending Aorta and Hemiarch Replacement without Hypothermic Circulatory Arrest**  
Dong Jin Kim  
Department of Thoracic and Cardiovascular Surgery, Sejong General Hospital, Gyeonggi-do, Republic of Korea



2019년 10월 24일(목)~26일(토)  
장소: 1전시장 (3층)



**20 Acute Intramural Hematoma Complicated with Spinal Cord Ischemia and Intracerebral Hemorrhage Simultaneously**

Kyo Seon Lee<sup>1</sup>, Jae Beom Jeon<sup>1</sup>, Cho Hee Lee<sup>1</sup>, Eunchong Kim<sup>1</sup>, Seok Kim<sup>2</sup>, Do Wan Kim<sup>1</sup>, Yochun Jung<sup>1</sup>, In Seok Jeong<sup>1</sup>, Sang Yun Song<sup>2</sup>, Kook Joo Na<sup>2</sup>, Byung Hee Ahn<sup>1</sup>, Sang Gi Oh<sup>1</sup>

<sup>1</sup>Department of Thoracic and Cardiovascular Surgery, Chonnam National University Hospital, Chonnam National University College of Medicine, Gwangju, Republic of Korea, <sup>2</sup>Department of Thoracic and Cardiovascular Surgery, Chonnam National University Hwasun Hospital, Chonnam National University College of Medicine, Jeollanam-do, Republic of Korea

**21 Long Term Surgical Result of Mycotic Aneurysm: A Review of 18 Cases**

Su Chan Lim, Suk Ho Sohn, Jae Woong Choi, Kyung Hwan Kim

Department of Thoracic and Cardiovascular Surgery, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea

**22 Forearm Compartment Syndrome following Thrombolytic Therapy for Arterial Thoracic Outlet Syndrome**

Seong Cheol Jeong, Yong Hwan Kim, Jung Wook Han, Jae Jun Kim, Insub Kim

Department of Thoracic and Cardiovascular Surgery, Uijeongbu St. Mary's Hospital, The Catholic University College of Medicine, Gyeonggi-do, Republic of Korea





2019년 10월  
24일(목)~26일(금)

창원 컨벤션센터 (CECO)

대한흉부심장혈관외과학회  
제51차 추계학술대회

The 51<sup>st</sup> Annual Meeting of the Korean Society for Thoracic and Cardiovascular Surgery (KTCVS)

## 필수과목 연수교육



2019년 10월 25일(금)  
장소: 301+302 강의실



08:00~10:00

좌장: 금동윤 (계명대학교 동산병원)

08:00~08:40 Ethics in Cardiothoracic Surgery: Informed Consent and Disclosure

문병주(Southlake Regional Health Center)

08:40~09:20 연구윤리 강의

신임희(대구가톨릭대학교 의과대학 의학통계학)

09:20~10:00 의료인에게 필요한 Communication Skill

이영환(영남대학교의료원 소아청소년과)



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## 흉부외과 여의사회 세션 및 정기총회



2019년 10월 25일(목)  
장소: 301+302 강의실



11:00-12:30 흉부외과 여의사회 세션 및 정기총회

11:00~12:00 하지정맥류/심부정맥혈전증 진단을 위한 혈관초음파 검사법(Hands-on 시연)

박영란 (코니카 미놀타)

12:00~12:30 여의사회 정기총회



2019년 10월  
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## 2019년 흉부외과 지도전문의 교육



2019년 10월 25일(금)  
장소: 301+302 강의실



13:00~13:30

등 록

장소: 컨벤션홀 로비

13:30~14:15 전공의 연차별 수련목표 및 내용

김영대(부산대학교병원)

14:15~15:00 전공의 수련 프로그램의 효과적인 평가방법

조석기(분당서울대학교병원)

15:00~15:30 Coffee Break

15:30~16:15 전문의 자격시험 취득 요건

최창휴(가천대학교 길병원)

16:15~17:00 Discussion



2019년 10월  
24일(목)~26일(금)

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대한흉부심장혈관외과학회  
제51차 추계학술대회

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## 2019년 체외순환사 추계학술대회



2019년 10월 25일(금)  
장소: 601+602 강의실



09:00-09:05 Opening Remark 좌장: 강석진(동국대병원)

### Session 1

09:05-09:40 CPB strategy in arch surgery 이치훈(양산 부산대학교병원)

09:40-10:00 Thromboelastography(TEG)와 routine coagulation test의 비교 최윤성(인제대학교 해운대백병원)

Discussion

### Session 2

10:10-10:45 ESRD환자의 심장수술 중의 주의약물 및 hemofiltration사용방법 송승환(부산대학교병원)

10:45-11:05 Myocardial protection in PNUYH(Del Nido cardioplegia) 오승민(양산 부산대학교병원)

11:05-11:25 ECMO in septic shock and sepsis 배성진(인제대학교 상계백병원)

Discussion

### Session 3

11:35-12:00 체외순환사협회 총회

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MEMO

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