

대한흉부심장혈관외과학회 제53차 추계학술대회 Program_11월 4일(목)

Time	Session/Lecture Title	Moderator / Speaker / Panel
성인심장(Edward Room)		
08:00-09:20	Session 1. MV & TV	좌장: 양창, 이석 패널: 정요준, 김희중
08:00-08:08	(MO)1 Comparison of clinical outcome of concomitant left atrial reduction plasty in mitral valve replacement	Ji Seong Kim(Seoul National University Hospital, Seoul National University College of Medicine)
08:08-08:16	(MO)2 Comparison of Valve Repair and Replacement in patients with Active Infective Endocarditis in Native Mitral Valve	Hongsun Kim(Samsung Medical Center, Sungkyunkwan University School of Medicine)
08:16-08:28	(O)3 Respect and Resect; a New Concept of Mitral Valve Repair Technique Oriented by Leaflet Quality	Hyung Gon Je(Pusan National University Yangsan Hospital)
08:28-08:40	(O)4 Initial experience with totally endoscopic mitral valve repair using a 3D endoscope	Jae Suk Yoo(Asan Medical Center, University of Ulsan College of Medicine)
08:40-08:48	(MO)5 Minimally invasive mitral valve surgery in patients with previous cardiac surgery	Mi Hee Lim(Pusan National University Yangsan Hospital)
08:48-09:00	(O)6 The difference of fractional area changes after tricuspid annuloplasty according to different design and stiffness ring: Cardiac computed tomography studying during cardiac cycle	Jung Hoon Shin(Yonsei University College of Medicine)
09:00-09:12	(O)7 Comparison of the long-term results between tricuspid valve repair and replacement based on preoperative cardiac magnetic resonance imaging data	Jae Woong Choi(Seoul National University Hospital, Seoul National University College of Medicine)
09:12-09:20	(MO)8 Mid-term outcomes of mini-thoracotomy beating-heart strategy for isolated TV surgery	Heemoon Lee(Sejong General Hospital, Bucheon)
09:20-09:30	Break	
09:31-09:50	Opening	
09:50-11:20	Session 2. 자유연계	좌장: 양지혁, 김원구 패널: 김재범, 재형근
9:50-10:05	(O)9 Moderate Hypothermia With Antegrade Cerebral Protection In Total Arch Repair: Arm-based Network Meta Analysis	Suk Won Song(Yonsei University College of Medicine)
10:05-10:20	(O)10 Mechanical or Biologic Prostheses for Aortic-Valve and Mitral-Valve Replacement: A National Cohort Study	Joon Bum Kim(Asan Medical Center, University of Ulsan College of Medicine)
10:20-10:35	(O)11 Detection of circulating tumor DNA from esophageal squamous cell carcinoma and NGS analysis of genetic variants	Seong Yong Park(Yonsei University College of Medicine)
10:35-10:50	(O)12 Surgical treatment pattern and overall survival after curative surgery in lung cancer patients: analysis based on Korean Association of Lung Cancer Registry (KALC-R)	Jong Ho Cho(Samsung Medical Center, Sungkyunkwan University School of Medicine)
10:50-11:05	(O)13 Improved Neo-aortic Regurgitation and Coronary Artery Problems after Arterial Switch Operation in Patients with D-Transposition of Great Arteries: An Eighteen-Year Experience in Single Center	Jae Gun Kwak(Seoul National University Hospital, Seoul National University College of Medicine)
11:05-11:20	(O)14 Impact of surgical intensivists on the clinical outcomes of patients admitted to post-cardiac surgical intensive care unit after valvular heart surgery	Dong Jung Kim(Seoul National University Bundang Hospital)
11:20-11:30	Break	
11:30-11:50	Medtronic 연구상 시상 및 강연	좌장: 김유현 강연: 김동관
11:30-11:50	Invited "It is a long journey: past, present and future"	강연: 김동관(서울아산병원)
11:50-12:10	좌장 강연 및 시상	좌장: 김유현 좌장: 안상준
12:10-12:30	대한의사협회장 강연	좌장: 김유현(서울대학교병원) 강연: 이필수(대한의사협회)
12:20-12:50	Lunch	
12:50-14:10	Session 3. CABG-1	좌장: 송 현, 임상현 패널: 이교선, 주인호
12:50-12:58	(MO)15 Hydrogen sulfide pathway in the internal thoracic artery and radial artery: Immunohistochemistry and mRNA analysis	Yoonjin Kang(Seoul National University Hospital, Seoul National University College of Medicine)
12:58-13:10	(O)16 Impact of adding a radial artery to single or bilateral internal thoracic artery grafts: Importance of the third arterial graft in multiple arterial grafting strategies	Hyu Hyun Kim (Yonsei University College of Medicine)
13:10-13:22	(O)17 The impact of graft choice on patency of posterior descending artery grafting according to the native right coronary artery stenosis level	Sang Yoon Kim(Seoul National University Bundang Hospital)
13:22-13:34	(O)18 Long-term patency of bilateral internal thoracic artery Y composite coronary artery bypass graft – determinants and impact on survival	Hyungwoo Woo(Seoul National University Bundang Hospital, Seoul National University College of Medicine)
13:34-13:46	(O)19 Long-term fate and prognostic impact of internal thoracic artery string sign shown early after composite coronary artery bypass grafting	Kang Min Kim(Seoul National University Bundang Hospital)
13:46-13:58	(O)20 Influence of ipsilateral graft inflow to arteriovenous fistula for hemodialysis in coronary bypass surgery	Bongyeon Sohn(Seoul National University College of Medicine)
13:58-14:10	(O)21 Impact of functional versus anatomic complete revascularization on clinical outcomes after coronary artery bypass grafting	Suk Ho Sohn(Seoul National University Hospital, Seoul National University College of Medicine)
14:10-14:20	Break	
14:20-15:40	Session 4. AD	좌장: 주석중, 김재현 패널: 정수민, 허운
14:20-14:32	(O)22 Impact of meteorological factors on the occurrence of acute type A aortic dissection in Korea: a single-center eleven-year retrospective study	Myeong su Kim(Yonsei University College of Medicine)
14:32-14:40	(MO)23 Computed Tomography-based Preoperative Prediction Model for Distal False Lumen Remodeling After Tear-oriented Limited Surgery for Acute DeBakey Type 1 Aortic Dissection	Sang Yoon Kim(Seoul National University Bundang Hospital)
14:40-14:48	(MO)24 Surgical outcome of patients with acute type A aortic dissection with preoperative neurologic deficit.	Suk kyung Lim(Samsung Medical Center, Sungkyunkwan University School of Medicine)
14:48-14:56	(MO)25 Surgical outcomes of acute type A aortic dissection in patients with preoperative cardiopulmonary resuscitation	Kyo Seon Lee(Chonnam National University Hospital)
14:56-15:04	(MO)26 Results of patients with acute type A aortic dissection who underwent preoperative cardiopulmonary resuscitation	Sun Han(Samsung Medical Center, Sungkyunkwan University School of Medicine)
15:04-15:16	(O)27 The central aortic cannulation strategy for acute type A aortic dissection	Bongyeon Sohn(Seoul National University College of Medicine)
15:16-15:24	(MO)28 Outcomes of root surgery in Acute type A Aortic Dissection	Seung Mo Yoo(Asan Medical Center, University of Ulsan College of Medicine)
15:24-15:32	(MO)29 Surgical management of Acute Type A Aortic dissection; Does Total Arch Replacement Improve late clinical outcome?	Sun Han(Samsung Medical Center, Sungkyunkwan University School of Medicine)
15:32-15:40	(MO)30 Acute type A intramural hematoma in octogenarian	Myeong su Kim(Yonsei University College of Medicine)
15:40-15:50	Break	
15:50-17:00	Session 5. Medtronic Awards	좌장: 윤영남, 황호영
15:50-16:02	(O)31 The Use of Blood, del Nido or HTK Cardioplegia during Aortic Surgery: A Systematic Review and Network Meta-analysis	Wan Kee Kim(Yonsei University College of Medicine)
16:02-16:14	(O)32 The Role of Inferior Mesenteric Artery and Hypogastric Artery On Ischemic Colitis After Endovascular And Open Abdominal Aneurysm Repair: Network Meta Analysis	Tae-hoon Kim(Yonsei University College of Medicine)
16:14-16:26	(O)33 Minimally Invasive Mitral Valve Surgery: Trends and Outcomes from the Korea Heart Valve Surgery Registry Database	Mi Hee Lim(Pusan National University Yangsan Hospital)
16:26-16:38	(O)34 Comparison of Outcomes of Tricuspid Edge-to-Edge Repair Versus Tricuspid Valve Replacement for Severe Tricuspid Regurgitation	Heemoon Lee(Sejong General Hospital, Bucheon)
16:38-16:50	(O)35 Occurrence rate and fate of competitive flow of left internal thoracic artery used in Y-composite grafts	Ji Seong Kim(Seoul National University Hospital, Seoul National University College of Medicine)
16:50-17:02	(O)36 Surgical outcomes for Hypertrophic cardiomyopathy with Left ventricular outflow tract obstruction: A Single-Center Experience over 20 Years	Kitae Kim(Asan Medical Center, University of Ulsan College of Medicine)
17:00-17:10	Break	
17:10-18:00	Session 6. Young Investigator Award	좌장: 홍준화, 김관성
17:10-17:22	(O)37 Preoperative 2D and 3D computed tomography angiographic sizing of the native aortic valve during sutureless or rapid-deployment aortic valves replacement; clinical outcomes focused on conduction disturbances	Chang Won Shin(Pusan National University Yangsan Hospital)
17:22-17:34	(O)38 Complications of Covid-19 vaccinations in post cardiac surgery patients; Covid-19 vaccinations prolong PT in patients who had undergone valve surgeries	Jiho Kwon(Samsung Medical Center, Sungkyunkwan University School of Medicine)
17:34-17:46	(O)39 Cerebrospinal fluid drainage in open thoracoabdominal aortic aneurysm repair has uncertain clinical benefit	Wooseok Choi(Asan Medical Center, University of Ulsan College of Medicine)
17:46-17:58	(O)40 Edoxaban Versus Warfarin for Thoracoscopic Ablation in Patients with Persistent Atrial Fibrillation: A Randomized Controlled Trial	Yoonseo Lee(Samsung Medical Center, Sungkyunkwan University School of Medicine)
17:58-18:10	(O)41 Development of significant tricuspid regurgitation after isolated aortic valve replacement in patients with less than moderate tricuspid regurgitation	Min Sang Kang(Seoul National University Hospital, Seoul National University College of Medicine)
18:10-18:20	Break	
18:20-19:30	전공의 교육: 효과적인 전공의 교육과 소통	좌장: 이승수 패널: 함석진
18:20-18:30	전공의 시작뿐만 아니라 설문조사 발표	함석진(아주대학교 병원 흉부외과)
18:30-18:50	우리는 어떻게 신세대 전공의를 이해할 것인가? 전공의와의 소통을 위한 방법	이승희(서울대학교 외과대학 의학교육학과)
18:50-19:10	효율적인 흉부외과 전공의 교육	윤보영(안체대학교 내과학교실)
19:10-19:30	자유토론	

대한흉부심장혈관외과학회 제53차 추계학술대회 Program_11월 4일(목)

Time	Session&Lecture Title	Moderator / Speaker / Panel
일반휴부(Medtronic Room)		
08:00-09:20	Session 1. 식도 I	좌장: 강창현, 박성용 패널: 이성수, 김홍관
08:00-08:12	(O)42 Influence of the Preoperative nutritional status in patients with Upfront surgery for Esophageal squamous cell carcinoma	Yun Ho Jeon(Asan Medical Center, Ulsan University College of Medicine)
08:12-08:24	(O)43 Postoperative complications influence health-related quality of life in esophageal cancer patients who underwent esophagectomy.	Busbe Na(Seoul National University Hospital, Seoul National University College of Medicine)
08:24-08:36	(O)44 Practice Pattern and Risk of Not Receiving Planned Surgery after Neoadjuvant Chemoradiotherapy for Locally Advanced Esophageal Squamous Cell Carcinoma	Tae Hee Hong(Samsung Medical Center, Sungkyunkwan University School of Medicine)
08:36-08:48	(O)45 Surgical outcomes of 500 robotic assisted minimally invasive esophagectomy for esophageal carcinoma : single surgeon's experience	Yun Ho Jeon(Asan Medical Center, Ulsan University College of Medicine)
08:48-09:00	(O)46 Optimal Treatment Regimen for Postoperative Leakage After Esophagectomy: A Historical Comparison of Endoscopic Vacuum Therapy (EVT) and Other Regimens	Jae Hyun Jeon(Seoul National University Bundang Hospital, Seoul National University College of Medicine)
09:00-09:12	(O)47 Metastectomy for pulmonary oligometastases after esophagectomy for esophageal cancer	Jeong Min Mun(Samsung Medical Center, Sungkyunkwan University School of Medicine)
09:20-09:30		Break
09:31-09:50	Opening	
09:50-11:20	Session 2. 자유편제(Edwards Room)	좌장: 양지혁, 김현규 패널: 김재범, 계형근
11:20-11:30		Break
11:30-11:50	Medtronic 연구상 시상 및 강연(Edwards Room)	좌장: 김홍관
11:30-11:50	Invited "It is a long journey: past, present and future"	강연: 김홍관(서울아산병원)
11:50-12:10	최장 강연 및 시상(Edwards Room)	좌장: 김홍관 최장: 현상훈
12:10-12:30	대한의사협회장 강연(Edwards Room)	좌장: 김홍관(서울대학교병원) 강연: 이철수(대한의사협회)
12:30-12:50		Lunch
12:50-14:10	Session 3. 폐암 I	좌장: 김관민, 최세훈 패널: 이종배, 이장영
12:50-13:02	(O)48 Predictive factors for occult lymph node metastasis in patients with clinical stage IA non-small cell lung cancer based on a prospective observational cohort	Junghee Lee(Samsung Medical Center, Sungkyunkwan University School of Medicine)
13:02-13:14	(O)49 Various Recurrence Dynamics for Non-small Cell Lung Cancer Depending on Pathological Stage and Histology after Surgical Resection	Jae Kwang Yun(Asan Medical Center, Ulsan University College of Medicine)
13:14-13:26	(O)50 Comparison of postoperative functional outcomes after lobectomy versus limited resection using dual-energy chest computed tomography: Different patterns of lung volume and perfusion change	Chang Young Lee(Yonsei University College of Medicine)
13:26-13:38	(O)51 Neoadjuvant versus adjuvant therapy in surgical multimodal treatment for clinical single-station N2 non-small cell lung cancer	Geun Dong Lee(Asan Medical Center, University of Ulsan College of Medicine)
13:38-13:50	(O)52 A two-step model consisting of a deep segmentation network and a machine learning clustering algorithm to detect and differentiate the early lung adenocarcinoma using chest computed tomography	Juyoung Lee(Yonsei University College of Medicine)
13:50-14:02	(O)53 Prediction of Recurrence in Patients with Advanced NSCLC Using Clinicopathological Factors: A New Analysis with Artificial Intelligence	Woohyun Jung(Seoul National University Bundang Hospital)
14:02-14:14	(O)54 Is the preserved superior segment after thoracoscopic common-basal segmentectomy really beneficial?	Seung Keun Yoon(Asan Medical Center, University of Ulsan College of Medicine)
14:10-14:20		Break
14:20-15:40	Session 4. 폐암 II	좌장: 김영태, 김문수 패널: 진재현, 김형남
14:20-14:32	(O)55 Radiologic Features of Primary Tumor on Baseline Computed Tomography Predict Occult Lymph Node Metastasis in Clinical N0 Non-small Cell Lung Cancer	Dong Woo Yoon(Samsung Medical Center, Sungkyunkwan University School of Medicine)
14:32-14:44	(O)56 Feasibility of neoadjuvant concurrent chemo-immuno-radiation followed by surgical resection for stage III NSCLC patients.	Jee Won Suh(Yongin Severance Hospital, Yonsei University College of Medicine)
14:44-14:56	(O)57 Prognostic significance of extracapsular extension in patients with pathologic N1 non-small cell lung cancer undergoing complete resection	Seung Keun Yoon(Asan Medical Center, University of Ulsan College of Medicine)
14:56-15:08	(O)58 Revisiting Categorization of IASLC Residual Tumor Classification for Non-Small Cell Lung Cancer	Junghee Lee(Samsung Medical Center, Sungkyunkwan University School of Medicine)
15:08-15:20	(O)59 Simultaneous identification of sentinel lymph nodes and pulmonary nodules by intraoperative dual images during pulmonary segmentectomy in early non-small-cell lung cancer.	Jun Hee Lee(Korea University Guro Hospital, College of Medicine, Korea University)
15:20-15:32	(O)60 False positive rate after direct lobectomy for suspected primary lung cancer	Sukki Cho(Seoul National University Bundang Hospital, Seoul National University College of Medicine)
15:32-15:44	(O)61 Two-photon microscopy as an imaging modality for lung cancer tissue	Hyun Jin Cho(Chungnam National University Sejong Hospital, Chungnam National University College of Medicine)
15:40-15:50		Break
15:50-16:50	Session 5. 일반휴부 I	좌장: 이성수, 김도훈 패널: 김도형, 함석진
15:50-16:02	(O)62 Intrapleural pressure measurement for pneumothorax : A predictive value for present air leakage and hospital stay	Bong Jun Kim(Yonsei University College of Medicine)
16:02-16:14	(O)63 Impact of Enhanced Recovery After Surgery Program (ERAS) on Opioid Usages after pulmonary resection for Non-small cell lung cancer	Jongbae Son(Samsung Medical Center, Sungkyunkwan University School of Medicine)
16:14-16:26	(O)64 Feasibility of Intra-operative pulmonary artery venting using continuous renal replacement therapy during intra-operative ECMO supported lung transplantation	Joo Hyung Son(Pusan National University Yangsan Hospital)
16:26-16:38	(O)65 Dynamic change of right heart function after lung transplantation for idiopathic pulmonary artery hypertension	Young Ho Yang(Yonsei University College of Medicine)
16:38-16:50	(O)66 Patients experience of the compensatory hyperhidrosis and the recurrence after surgery via Google survey	Wongi Woo(Yonsei University College of Medicine)
16:50-17:00		Break
17:00-18:00	Session 6. 일반휴부 II	좌장: 함석진, 최윤수 패널: 조석기, 박성용
17:00-17:12	(O)67 THE CRANE-POWERED ENTIRE CHEST WALL REMODELING IN PECTUS EXCAVATUM REPAIR: UP-TO-DATE RESULTS WITH 395 PATIENTS FOR RECENT 3 YEARS	Gong Min Rim(The Catholic University)
17:12-17:24	(O)68 Intraoperative percutaneous localization guided by electro-magnetic navigation system for ground glass nodule	Bong Jun Kim(Yonsei University College of Medicine)
17:24-17:36	(O)69 Percutaneous radiofrequency ablation (RFA) using operation room cone beam CT in the treatment of lung malignancies	Joohyung Son(Pusan National University College of Medicine)
17:36-17:48	(O)70 Intramuscular electrical stimulation, a new effective modality to control post-thoracotomy somatic pain : A case-control trial	Duk Hwan Moon(Yonsei University College of Medicine)
17:48-18:00	(O)71 Validation of parsimonious Eurolung risk score in surgically resected non-small cell lung cancer	Jae Hwa Jeong(Asan Medical Center, Ulsan University College of Medicine)
18:00-18:20		Break
18:20-19:30	전공의 교육: 효과적인 전공의 교육과 소통(Edwards Room)	좌장: 이성수(연세대학교 강남세브란스병원) 담장: 함석진(아주대학교의료원)
18:20-18:30	전공의 시작할전에 대한 설문조사 발표	함석진(아주대학교 병원 흉부외과)
18:30-18:50	우리는 어떻게 신세대 전공의를 이해할 것인가? 전공의와의 소통을 위한 방법	이승희(서울대학교 의과대학 의학교육학과)
18:50-19:10	효율적인 흉부외과 전공의 교육	윤보영(안성대학교 내과학교실)
19:10-19:30	자유토론	

대한흉부심장혈관외과학회 제53차 추계학술대회 Program_11월 4일(목)		
Time	Session&Lecture Title	Moderator / Speaker / Panel
소아/중환자(Ethicon Room)		
08:00-09:20	Session 1. 선전성심장질환 I: postoperative concerns	좌장: 윤태진, 조성규 패널: 이창학, 박찬기, 최윤석
08:00-08:12	(O)72 The feasibility of Nuss bar insertion combined with partial sternotomy in the treatment of pectus excavatum developing after congenital heart surgery	Hae Jin Oh(Pusan National University Yangsan Hospital)
08:12-08:24	(O)73 Outcomes of Pulmonary Artery Banding for Functional Single ventricle with unrestrictive pulmonary blood flow	Eun Seok Choi(Asan Medical Center, University of Ulsan College of Medicine)
08:24-08:36	(O)74 Outcomes of Modified Warden Procedure in Partial Anomalous Pulmonary Venous Connections	Ilkun Park(Samsung Medical Center, Sungkyunkwan University School of Medicine)
08:36-08:48	(O)75 Postcardiotomy ECMO Support in Patients with Congenital Heart Disease	Seohee Joo(Seoul National University Children's Hospital)
08:48-09:00	(O)76 Primary tracheoplasty may not be required in all congenital heart disease patients with incidentally found tracheal stenosis	Seon Yong Bae(Seoul National University Hospital, Seoul National University College of Medicine)
09:00-09:12	(O)77 Placing sutures just at the edge of ventricular septal defect can safely reduce the occurrence of right bundle branch block	Dae Hyeon Kim(Seoul National University Hospital, Seoul National University College of Medicine)
09:12-09:24	(O)78 Outcomes of Cardiac Surgery in Pediatric Patients with Noonan Syndrome	Chan Hyeon Kim(Seoul National University Hospital, Seoul National University College of Medicine)
09:20-09:30	<i>Break</i>	
09:31-09:50	Opening	
09:50-11:20	Session 2. 자유연재(Edwards Room)	좌장: 양지혁, 김한구 패널: 김재범, 제형근
11:20-11:30	<i>Break</i>	
11:30-11:50	Medtronic 연구상 시상 및 강연(Edwards Room)	좌장: 김용환(서울대학교병원) 강연: 김동관(서울아산병원)
11:30-11:50	Invited "It is a long Journey: past, present and future"	강연: 김동관(서울아산병원)
11:50-12:10	좌장 강연 및 시상(Edwards Room)	좌장: 김용환(서울대학교병원) 좌장: 정상훈(분당서울대학교병원)
12:10-12:30	대한의사협회장 강연(Edwards Room)	좌장: 김용환(서울대학교병원) 강연: 이철수(대한의사협회)
12:30-12:50	<i>Lunch</i>	
성인상장		
12:45-13:45	Session 15. Vascular Others	좌장: 노환규, 정의석
12:45-12:57	(O)79 Routine compression stocking with or without additional target vein compression after ultrasonography guided foam sclerotherapy: A prospective, intrapersonal, randomized controlled trial.	Eun Hee Jeong(Jeju Soo CardioVascular Clinic (JSCVC))
12:57-13:09	(O)80 Carotid endarterectomy versus carotid artery stenting in elective surgery: A 9-year single institutional analysis	Up Huh(Pusan National University School of Medicine)
13:09-13:21	(O)81 Updates: pulmonary endarterectomy for chronic thromboembolic pulmonary hypertension	Min Jung Ku(Samsung Medical Center, Sungkyunkwan University School of Medicine)
13:21-13:33	(O)82 Initial 175 experience in the use of cyanoacrylate occlusion for the treatment of incompetent great, small and accessory saphenous veins	Seok Boom Hong(Yonsei University College of Medicine)
13:33-13:45	(O)83 Role of a frozen-tissue bank in cardiothoracic surgery: Specialized Translational biObank for Cardiovascular Research (STORE)	Yoonjin Kang(Seoul National University Hospital, Seoul National University College of Medicine)
13:45-14:00	<i>Break</i>	
소아/중환자		
14:00-15:30	Session 3. Video Seesion (선전성 심장질환)	좌장: 윤태진, 이창학 패널: 최윤석, 최광호, 김용래
14:00-14:10	Video 1 Surgical management for juxtaductal left pulmonary artery occlusion in univentricular palliation	Eun Seok Choi(Asan Medical Center, University of Ulsan College of Medicine)
14:10-14:20	Video 2 Pulmonary valve infective endocarditis in a 70-year-old patient with ventricular septal defect	Hyung-Tae Sim(St. Vincent's Hospital, The Catholic University College of Medicine)
14:20-14:30	Video 3 Repair of Incomplete Bicuspid Neo-Aortic Valve in Patient with Transposition of the Great Arteries after Arterial Switch Operation	Yujin Kwak(Seoul National University Hospital, Seoul National University College of Medicine)
14:30-14:40	Video 4 A Novel Inflow Cannulation Strategy for Biventricular Assist Device in a Patient with Restrictive Cardiomyopathy	Yujin Kwak(Seoul National University Hospital, Seoul National University College of Medicine)
14:40-14:50	Video 5 Salvage mitral valve replacement with a home-made Gore-Tex tricuspid valve	Hyungtae Kim(Pusan National University Yangsan Hospital)
14:50-15:00	Video 6 One Stage Primary Yasui Operation	Sang On Lee(Asan Medical Center, University of Ulsan College of Medicine)
15:00-15:10	Video 7 Mitral valve replacement in a young infant: Supra-annular implantation of 16 mm mechanical valve in 3.4 kg patient	Dong-Hee Kim(Asan Medical Center, University of Ulsan College of Medicine)
15:10-15:35	<i>Break</i>	
일반공부		
15:35-16:55	Session 14. 최소침습	좌장: 김대민, 조정수 패널: 이근홍, 박영이나
15:35-15:47	(O)84 Preoperative dual localization with microcoil and indocyanine green for deep seated or subsolid pulmonary nodule	Jun Hee Lee(Korea University Guro Hospital, College of Medicine)
15:47-15:59	(O)85 Comparative Analysis of Long Term Result between Single Incision VATS and Multi-port VATS: Can Single Incision VATS be an Alternative to Multi-port VATS in Lung cancer surgery?	Joo Hyung Son(Pusan National University Yangsan Hospital)
15:59-16:11	(O)86 Intraoperative electromagnetic navigational bronchoscopy guided transthoracic dye marking for localization of small peripheral lung nodules during minimally invasive surgical resection	Junghee Lee(Samsung Medical Center, Sungkyunkwan University School of Medicine)
16:11-16:23	(O)87 Initial Experience with and Surgical Outcomes of da Vinci Single-port System in General Thoracic Surgery	Seong Yong Park(Yonsei University College of Medicine)
16:23-16:35	Withdraw Surgical outcomes and prognostic factors following thoracoscopic pulmonary metastasectomy from colorectal cancer	Eunchong Kim(Chonnam National University Medical School)
16:35-16:47	(O)89 Deep learning-based prediction of invasive adenocarcinoma among pure ground glass nodules of the lung	Duk Hwan Moon(Yonsei University College of Medicine)
18:00-18:20	<i>Break</i>	
18:20-19:30	전공의 교육: 효과적인 전공의 교육과 소통(Edwards Room)	좌장: 이경수(연세대학교 강남세브란스병원) 담장: 함석진(아주대학교의료원)
18:20-18:30	전공의 시작결연에 대한 설문조사 발표	함석진(아주대학교 병원 홍보외과)
18:30-18:50	우리는 어떻게 신세대 전공의를 이해할 것인가? 전공의와의 소통을 위한 방법	이승희(서울대학교 외과대학 의학교육학과)
18:50-19:10	효율적인 홍보외과 전공의 교육	윤보영(연세대학교 내과학교실)
19:10-19:30	자유토론	