



DAILY PROGRAM

The APELSO 2021 Daily program is based in Taiwan time zone (GMT+8).

Friday, October 29, 2021

Opening Ceremony & Keynote Session

Date: Oct. 29 | Time: 09:00-10:30 (GMT+8)

Room: 201, 2F

Moderator(s):	Yih-Sharng Chen (Taiwan), Chien-Sung Tsai (Taiwan)	
	09:00-09:10	Opening Remarks Yih-Sharng Chen (Taiwan)-Chairman, APELSO 2021
		Opening Remarks Chien-Sung Tsai (Taiwan)-Co-Chairman, APELSO 2021/ President, TATCS
		Opening Remarks Wen-Je Ko (Taiwan)-Mayor, Taipei City Government
K1	09:10-09:35	Lessons Learned from COVID-19: What Does It Mean for the Future of ECMO? Matthew Paden (USA)
K2	09:35-10:00	OHCA-ECPR Review and the Experience in Europe Jan Bělohávek (Czech Republic)
K3	10:00-10:25	Through the Suffering of a Pandemic, We Can Rise Better, Stronger and More Together John Fraser (Australia)

Plenary Session

Date: Oct. 29 | Time: 11:00-12:15 (GMT+8)

Room: 201, 2F

Moderator(s):	Yih-Sharng Chen (Taiwan), John Fraser (Australia)	
P1	11:00-11:25	VV ECMO: Updated 2021 Adult Guidelines Eddy Fan (Canada)
P2	11:25-11:50	New Insights of Extracorporeal Membrane Oxygenation in Adult Post-Cardiotomy Cardiogenic Shock Roberto Lorusso (Netherlands)
P3	11:50-12:15	ECMO and Infection - When One Leads to the Other Graeme MacLaren (Singapore)

VV 1 - COVID-19

Date: Oct. 29 | Time: 13:30-15:00 (GMT+8)

Room: 201, 2F

Moderator(s):	Chih-Hsien Wang (Taiwan), Richard Ming-Hui Lin (Taiwan), Kuo-Chin Kao (Taiwan)	
VV1-1	13:30-13:45	The Evidence for ECMO in COVID-19 Daniel Brodie (USA)
VV1-2	13:45-14:00	ECMO for Severe COVID-19 Related ARDS Matthieu Schmidt (France)
VV1-3	14:00-14:15	Outcome of COVID-19 on VV-ECMO Christian Karagiannidis (Germany)
VV1-4	14:15-14:30	ECMO in COVID-19 Pandemic, Japan Experience Keiki Shimizu (Japan)
VV1-5	14:30-14:45	Long-Term Outcomes after ECMO Carol Hodgson (Australia)
	14:45-15:00	Panel Discussion

TATCS Award

Date: Oct. 29 | Time: 13:30-14:15 (GMT+8)

Room: 401, 4F

Moderator(s):	Chien-Sung Tsai (Taiwan), Chung-I Chang (Taiwan), Hsi-Yu Yu (Taiwan)	
TATCS-1	13:30-13:45	ProT-a Gene Transfer Attenuates Cardiopulmonary Remedying and Mortality in a Flow-Induced Pulmonary Hypertension Rat Model Jun-Neng Roan (Taiwan)
TATCS-2	13:45-14:00	Effects of Fluoroquinolones on Outcomes of Patients with Aortic Dissection or Aneurysm Shao-Wei Chen (Taiwan)
	14:00-14:15	Panel Discussion

Cardiac 1 - Free Papers I

Date: Oct. 29 | Time: 13:30-14:50 (GMT+8)

Room: 402AB, 4F

Moderator(s):		Jen-Ping Chang (Taiwan), Chun-Che Shih (Taiwan), Pyng-Jing Lin (Taiwan)
C1-1	13:30-13:40	Early Surgical Correction in A 2-day-old Term Female Neonate with Cantrell Syndrome with Ectopic Left Ventricular Diverticulum Yu-Huei Lin (Taiwan)
C1-2	13:40-13:50	Commando Operation for Double Valve Replacement in Patients with Severe Mitral Annulus Calcification. Ling-Yi Wei (Taiwan)
C1-3	13:50-14:00	Application of Supercritical Carbon Dioxide Decellularized Vascular Scaffold in Vascular Graft Shih-Ying Sung (Taiwan)
C1-4	14:00-14:10	Use Radiopaque String for Marking the Coronary Artery Bypass Graft Ostia - A Simple Technique Chih-Chien Yen (Taiwan)
C1-5	14:10-14:20	Impact of Prosthesis-Patient Mismatch after Aortic Valve Replacement: A Single-Centre Experience Huai-Hsuan Tung (Taiwan)
C1-7	14:20-14:30	The Brain Radiology of Acute Type A Aortic Dissection Repair with Permanent Neurological Deficits Chun-Hao Chang (Taiwan)
C1-8	14:30-14:40	Decision Making on OHCA(ROSC) Patient with Acute Type A Aortic Dissection Chung-Ting Kuo (Taiwan)
C1-9	14:40-14:50	Minimally Invasive Extra-anatomical Bypass + Zone 0 Stenting for Redo Surgery of Chronic Type A Dissection Yee-Hern Lye (Taiwan)

Thoracic 1 - Esophagus

Date: Oct. 29 | Time: 13:30-15:00 (GMT+8)

Room: 402CD, 4F

Moderator(s):		Yau-Lin Tseng (Taiwan), Han-Shui Hsu (Taiwan)
T1-1	13:30-13:45	Active Surveillance or Early Resection for Ground-Glass Nodules That Need Preoperative Localization Ping-Chung Tsai (Taiwan)
T1-2	13:45-14:00	Impact of Child-Pugh Class a Liver Cirrhosis on Perioperative Outcomes of Patients with Oesophageal Cancer: A Propensity Score-Matched Analysis Chuan Cheng (Taiwan)
T1-3	14:00-14:15	The Long-Term Clinical Impact of Thoracic Endovascular Aortic Repair (TEVAR) for Advanced Esophageal Cancer Invading Aorta Ke-Cheng Chen (Taiwan)

T1-4	14:15-14:30	Malignancy Prediction Capacity and Possible Prediction Model of Circulating Tumor Cells for Suspicious Pulmonary Lesions Ching-Yang Wu (Taiwan)
T1-5	14:30-14:45	Clinicopathological Significance of Pathologic Complete Lymph Node Regression After Neoadjuvant Chemoradiotherapy in Esophageal Squamous Cell Carcinoma Po-Kuei Hsu (Taiwan)
T1-6	14:45-15:00	Bruton's Tyrosine Kinase (BTK) Mediates Resistance to EGFR Inhibition in Non-Small Cell Lung Carcinoma Kuang-Tai Kuo (Taiwan)

VA 1 - LV Deloading

Date: Oct. 29 | Time: 15:30-17:00 (GMT+8)

Room: 201, 2F

Moderator(s):	Hsi-Yu Yu (Taiwan), Chwan-Yau Luo (Taiwan)	
VA1-1	15:30-15:45	Percutaneous VAD and VA-ECMO, Cooperation or Competition? (VA) Alain Combes (France)
VA1-2	15:45-16:00	Unloading of the Left Ventricle During Venous-Arterial Extracorporeal Membrane Oxygenation: New Evidences from Experimental Studies Roberto Lorusso (Netherlands)
VA1-3	16:00-16:15	LV Venting During VA ECMO Jae-Seung Jung (South Korea)
VA1-4	16:15-16:30	What is the Impact of LV Unloading in Acute Heart Failure, Myocardial Infarction, and Myocarditis? Carsten Tschoepe (Germany)
VA1-5	16:30-16:45	VA ECMO With Transapical LV Vent for Severe LV Dysfunction Patient Pranya Sakiyalak (Thailand)
	16:45-17:00	Panel Discussion

Cardiac 2 - Anti-Diabetic Drug and Broaden Heart Protection

Date: Oct. 29 | Time: 15:30-17:00 (GMT+8)

Room: 402AB, 4F

Moderator(s):	Yih-Sharng Chen (Taiwan), Chien-Sung Tsai (Taiwan)	
C2-1	15:30-16:00	Empagliflozin Outcome Trial in Patients with Heart Failure Javed Butler (USA)
C2-2	16:00-16:20	Broaden Heart Protection: Heart Failure in Patients with or without Type 2 Diabetes Hung-Yu Chang (Taiwan)
C2-3	16:20-16:50	GLP-1 Receptor Agonists Beyond the Treatment of Type 2 Diabetes Yi-Ting Tsai (Taiwan)
	16:50-17:00	Panel Discussion

Thoracic 2 - Chest Trauma and Mediastinum

Date: Oct. 29 | Time: 15:30-16:45 (GMT+8)

Room: 402CD, 4F

Moderator(s):	Tsai-Wang Huang (Taiwan), Hsu-Chih Huang (Taiwan)	
T2-1	15:30-16:00	Chest Trauma and Rib Fixation Silvana Marasco (Australia)
T2-2	16:00-16:15	The Advantages of 3D Printing in The Surgical Fixation of Traumatic Rib Fractures Ti-Hui Wu (Taiwan)
T2-3	16:15-16:30	Combination of Machine Learning and Dynamic Contrast Enhanced Magnetic Resonance Imaging for Differentiating Anterior Mediastinal Tumor Chao-Chun Chang (Taiwan)
T2-4	16:30-16:45	The Predictors of Post Thymectomy Myasthenia Crisis – TSGH Experience and Review of the Literatures. Yen-Shou Kuo (Taiwan)

Saturday, October 30, 2021

VV 2 - Position, Sedation, and Ventilation

Date: Oct. 30 | Time: 08:20-09:50 (GMT+8)

Room: 201, 2F

Moderator(s): Jun-Neng Roan (Taiwan), Ching-Chia Wang (Taiwan)

VV2-1 08:20-08:35 **Optimal Sedation Strategy in ECMO Care**
Toshiyuki Aokage (Japan)VV2-2 08:35-08:50 **Turn-Over the Patient with ECMO: Prone Position**
Kollengode Ramanathan (Singapore)VV2-3 08:50-09:05 **Prone Positioning during Adult VV-ECMO: What Do We Know So Far?**
Ricky, Wai Kit Chan (Hong Kong)VV2-4 09:05-09:20 **When Will I Add an Additional Pump, VA+VV?**
Jun-Neng Roan (Taiwan)VV2-5 09:20-09:35 **ECMO Transport – Has COVID-19 Changed Anything?**
Shay McGuinness (New Zealand)09:35-09:50 **Panel Discussion****Free Papers I**

Date: Oct. 30 | Time: 08:20-09:50 (GMT+8)

Room: 301, 3F

Moderator(s): Pyng-Jing Lin (Taiwan), Jiunn-Jye Sheu (Taiwan)

FP-1-1 08:20-08:30 **Litigations Against Physicians Involved in ELSO in Taiwan**
Pyng-Jing Lin (Taiwan)FP-1-2 08:30-08:40 **Out-of-Hospital Cardiac Arrest due to Syphilis Aortitis-related Aortic Insufficiency: ECPR or Not?**
Hsiao-En Tsai (Taiwan)FP-1-3 08:40-08:50 **Comparison of Revascularization Strategy for Acute Myocardial Infarction with Prolonged Cardiac Arrest Requiring Extracorporeal Membrane Oxygenation Support**
Chun-Chen Huang (Taiwan)FP-1-4 08:50-09:00 **How It Started, How It is Going: Single Institution's Experience in Extracorporeal Cardiopulmonary Resuscitation.**
Chan-Yang Hsu (Taiwan)FP-1-5 09:00-09:10 **Different Myocardial Perfusion Patterns in Computed Tomography of Patients After Extracorporeal Cardiopulmonary Resuscitation for Acute Myocardial Infarction with Out-of-hospital Cardiac Arrest**
Yu-Cheng Huang (Taiwan)FP-1-6 09:10-09:20 **The Role of Pump Controlled Retrograde Trial Off (PCRTO) in Weaning Adult Patients with Venous Arterial (V-A) ECMO: Experience from A Regional ECMO Center**
Fung-Ming Lau (Hong Kong)FP-1-7 09:20-09:30 **Comparison between Different ECMO Implementation Polices for ARDS**
Hsiao-En Tsai (Taiwan)

FP-1-8	09:30-09:40	Does Combination of Intraaortic Balloon Pump and Venoarterial Extracorporeal Membrane Oxygenation Improve the Outcomes in Patients with Postcardiotomy Cardiogenic Shock? Cheng-Shiun Shiue (Taiwan)
FP-1-9	09:40-09:50	ECMO in End Stage Malignancy Sz-Han Yu (Taiwan)

Cardiac 3 - TAVR

Date: Oct. 30 | Time: 08:20-09:50 (GMT+8)

Room: 402AB, 4F

Moderator(s):	Kuo-Chen Lee (Taiwan), Huai-Min Chen (Taiwan), Chih-Yuan Lin (Taiwan)	
C3-1	08:20-08:50	Commissural Alignment for Post TAVR PCI and Redo TAVR Gilbert H. L. Tang (USA)
C3-2	08:50-09:20	Surgical Valve Determination in the TAVR Era and Valve in Valve in TAVR. Vinayak Bapat (USA)
C3-3	09:20-09:50	TAVR for Bicuspid AS Patients in Taiwan Yung-Tsai Lee (Taiwan)

Thoracic 3 - Lung Cancer 1

Date: Oct. 30 | Time: 08:20-10:00 (GMT+8)

Room: 402CD, 4F

Moderator(s):	Ying-Kai Chao (Taiwan), Ching-Yuan Cheng (Taiwan), Chih-Hsin Yang (Taiwan)	
T3-1	08:20-08:35	The Prognostic Impact of Nodal Response in the Patients of Esophageal Cancer with Complete Pathological Response of the Primary Tumor (ypT0) after Neoadjuvant Chemoradiation and Esophagectomy Wen-Yao Lee (Taiwan)
T3-2	08:35-08:50	Lung Cancer Recurrence Between Uniport or Multiport Video-assisted Thoracic Surgery Hsiu-Ping Chou (Taiwan)
T3-3	08:50-09:20	A New Era of Immunotherapy as Neoadjuvant Therapy for Resectable NSCLC Jonathan Spicer (Canada)
T3-4	09:20-10:00	Clinical Perspective-Long-Term Follow up Data Interpretation for Immunotherapy Era in aNSCLC Treatment Tetsuya Mitsudomi (Japan)

SECTROC Session - Perfusionist Point of View

Date: Oct. 30 | Time: 08:50-09:50 (GMT+8)

Room: 203, 2F

Moderator(s):	Jin-Ye Chou (Taiwan), Ching-lan Chao (Taiwan)	
SECTROC1-1	08:50-09:10	Management of V-V ECMO for COVID-19 Patients in Japan from the Viewpoint of Clinical Engineer Koichi Kashiwa (Japan)
SECTROC1-2	09:10-09:30	Coping Strategies of Perfusionist in the Epidemic Yueh-Ting Chou (Taiwan)
	09:30-09:50	Panel Discussion

VA 2 - Pediatric VA ECMO

Date: Oct. 30 | Time: 10:15-12:00 (GMT+8)

Room: 201, 2F

Moderator(s):	Heng-Wen Chou (Taiwan), Chung-I Chang (Taiwan)	
VA2-1	10:15-10:45	Neonatal and Pediatric Ventricular Support Heng-Wen Chou (Taiwan)
VA2-2	10:30-10:45	How to Improve the Results of Pediatric Post-Cardiotomy ECMO (VA, Pediatric) Warwick Butt (Australia)
VA2-3	10:45-11:00	Strategy for Weaning Paediatric Venous-Arterial ECMO and Timing for VAD Roberto Chiletta (Australia)
VA2-4	11:00-11:15	Awake Neonatal ECMO Daniel R. Dirnberger (USA)
VA2-5	11:15-11:30	Optimizing Availability of ECMO Technology for Children Peta Alexander (USA)
VA2-6	11:30-11:45	Nafamostat Mecilate as an Anti-Coagulant During Paediatric ECMO. Its Preventive Effect Against Cranial Bleeding of Neonates and Infants. Naoki Shimizu (Japan)
	11:45-12:00	Panel Discussion

VV 3 - Special Issue

Date: Oct. 30 | Time: 10:15-12:00 (GMT+8)

Room: 301, 3F

Moderator(s):		Hsaio-En Tsai (Taiwan), Ling-Yi Wei (Taiwan), Chih-Hsien Wang (Taiwan)
VV3-1	10:15-10:30	Blood Stream Infection in ECMO Ling-Yi Wei (Taiwan)
VV3-2	10:30-10:45	Lessons from ECMO for COVID-19 in China Xiaotong Hou (China)
VV3-3	10:45-11:00	ECMO as a Bridge to Lung Transplantation Shingo Ichiba (Japan)
VV3-4	11:00-11:15	Lessons from ECMO for COVID-19 in India Urvi Shukla (India)
VV3-5	11:15-11:30	Implementing ECMO Program in Indonesia during COVID-19 Pandemic Eva Miranda Marwali (Indonesia)
VV3-6	11:30-11:45	Use of Adsorbing Filter oXiris during Extracorporeal Membrane Oxygenation Support Chih-Hsien Wang (Taiwan)
	11:45-12:00	Panel Discussion

SECTROC Session - Free Paper

Date: Oct. 30 | Time: 10:30-11:30 (GMT+8)

Room: 203, 2F

Moderator(s):		Lee-Mei Pong (Taiwan), Chia-Han Chu (Taiwan)
SECTROC2-1	10:30-10:50	A Successful Utilization of ECPR for OHCA Patient Experience Sharing Wen-Ching Sun (Taiwan)
SECTROC2-2	10:50-11:10	The Impact of Targeted Temperature Management after ECPR - Different TTM tools with Different Outcome Kuan-Yu Lin (Taiwan)
SECTROC2-3	11:10-11:30	Importance of Artificial Membrane Oxygenator's Pressure Gradient in Extra-corporeal Circulation System for Hemolysis Prevention Shyen-Lin Tsai (Taiwan)

Cardiac 4 - Ventricular Assist Device

Date: Oct. 30 | Time: 10:30-12:00 (GMT+8)

Room: 402AB, 4F

Moderator(s):		Chien-Sung Tsai (Taiwan), Cheng-Hsiung Huang (Taiwan), Shu-Chien Huang (Taiwan)
C4-1	10:30-10:50	What Did We Learn from the Momentum 3 CAP? Christopher Thomas Salerno (USA)
C4-2	10:50-11:10	HeartMate 3 LVAD in Small BSA Patients Tomoyuki Fujita (Japan)
C4-3	11:10-11:30	Management of Right Ventricular Failure with Continuous Flow VADs in a Biventricular Configuration David McGiffin (Australia)
C4-4	11:30-11:50	Device Exchange from HeartMate II to HeartMate 3 Hsiao-Huang Chang (Taiwan)
	11:50-12:00	Panel Discussion

Thoracic 4 - TKI and Others

Date: Oct. 30 | Time: 10:30-11:45 (GMT+8)

Room: 402CD, 4F

Moderator(s):		Jang-Ming Lee (Taiwan), Hung-I Lu (Taiwan)
T4-1	10:30-11:00	Treatment Strategies in Early EGFRm NSCLC Patients Masahiro Tsuboi (Japan)
T4-2	11:00-11:30	The Evolution of EGFR-TKI in Advanced and Metastatic NSCLC Treatment Wei-Hsun Hsu (Taiwan)
T4-3	11:30-11:45	Lobe Specific Lymph Node Dissection for Clinical Stage IB to II Upper Lobe NSCLC: A Single Center Experience Chen-Yu Wu (Taiwan)

VV 4 - Pediatric and Adult VV ECMO

Date: Oct. 30 | Time: 13:40-15:10 (GMT+8)

Room: 201, 2F

Moderator(s):		Shu-Chien Huang (Taiwan)
VV4-1	13:40-13:55	Pediatric ECPR Experience in NTUH Shu-Chien Huang (Taiwan)
VV4-2	13:55-14:10	ECMO Use in COVID -19, Same as FLU or not? (VV, COVID) In-Seok Jeong (South Korea)
VV4-3	14:10-14:25	Pediatric Intensive Care Preparedness and ECMO Availability in Children with COVID-19 Hwa Jin Cho (South Korea)
VV4-4	14:25-14:40	The Inflammatory Response to ECMO in COVID-19 Patients Jacky Suen (Australia)
VV4-5	14:40-14:55	Coming Together during COVID-19 and Beyond Pauline Yeung Ng (Hong Kong)
	14:55-15:10	Panel Discussion

VA 3 - Next Step after VA-ECMO

Date: Oct. 30 | Time: 13:40-15:10 (GMT+8)

Room: 301, 3F

Moderator(s):	Nai-Hsin Chi (Taiwan), Hung-Yen Ke (Taiwan)	
VA3-1	13:40-13:55	Mobilization on VA ECMO Cara Agerstrand (USA)
VA3-2	13:55-14:10	Building Bridges- My Patient Is on VA-ECMO, What Now? Priya Nair (Australia)
VA3-3	14:10-14:25	LVAD via Minimal Invasive Incision Nai-Hsin Chi (Taiwan)
VA3-4	14:25-14:40	Can We Improve Outcomes in Anticoagulation and ECMO? Heidi Dalton (USA)
VA3-5	14:40-14:55	Prothrombin Complex Concentrates Used in MCS Patients Hung-Yen Ke (Taiwan)
	14:55-15:10	Panel Discussion

Cardiac 5 - Aortic and Mitral Valve Surgery

Date: Oct. 30 | Time: 13:40-15:10 (GMT+8)

Room: 402AB, 4F

Moderator(s):	Chien-Sung Tsai (Taiwan), Chung-Yi Chang (Taiwan), Jui-Chih Chang (Taiwan)	
C5-1	13:40-14:10	Hemodynamic Performance of Novel Stented Bovine Pericardial Aortic Bioprosthesis Tomoyuki Fujita (Japan)
C5-2	14:10-14:40	How to Simplified Mitral Annuloplasty and Atrial Fibrillation Ablation in Robotic Surgery Feng-Chun Tsai (Taiwan)
C5-3	14:40-15:10	How to Determine Artificial Chordae Length Pre-Operatively and Annuloplasty Ring Size Selection I-Chen Chen (Taiwan)

Thoracic 5 - Lung Cancer 2

Date: Oct. 30 | Time: 13:40-15:10 (GMT+8)

Room: 402CD, 4F

Moderator(s):	Hsin-Yuan Fang (Taiwan), Mong-Wei Lin (Taiwan)	
T5-1	13:40-14:10	Transbronchial RF Ablation of Lung Nodules Shiyue Li (China)
T5-2	14:10-14:25	The Prognosis of Thoracoscopic Segmentectomy in Non-Peripheral Clinical Stage IA Non-Small Cell Lung Cancer Ying-Yuan Chen (Taiwan)
T5-3	14:25-14:40	Algorithmic Approach with Negative Pressure Wound Therapy Improved Survival and Quality of Life in Patients with Synchronous Hypopharyngeal and Esophageal Cancer Undergoing Pharyngolaryngoesophagectomy with Gastric Tube Reconstruction Wen-Ruei Tang (Taiwan)
T5-4	14:40-15:10	Bronchoscopic Thermal Vapor Ablation for Localized Cancer Lesion Daniel P. Steinfert (Australia)

Special Issue on ECMO

Date: Oct. 30 | Time: 15:40-17:25 (GMT+8)

Room: 201, 2F

Moderator(s):	Meng-Yu Wu (Taiwan), Hsiang-Yu Yang (Taiwan)	
SI-1	15:40-15:55	Extracorporeal Membrane Oxygenation-Related Management for Right Ventricular Failure Roberto Lorusso (Netherlands)
SI-2	15:55-16:10	ECMO in Traumatic Patients Meng-Yu Wu (Taiwan)
SI-3	16:10-16:25	ECPR in Asia - What Next? Wai Ching, Simon Sin (Hong Kong)
SI-4	16:25-16:40	Does Cannulation Strategy Have the Effect on the Outcome of ECMO? Xiaotong Hou (China)
SI-5	16:40-16:55	Non-invasive Hemodynamics in ECMO Yasser Nassef (Taiwan)
SI-6	16:55-17:10	Hemostatic Glues or Matrix Used for MCS/VAD Bleeding Control Hsiang-Yu Yang (Taiwan)
	17:10-17:25	Panel Discussion

Free Papers II

Date: Oct. 30 | Time: 15:40-17:30 (GMT+8)

Room: 301, 3F

Moderator(s):	Yi-Ting Tsai (Taiwan), Huai-Min Chen (Taiwan), Jui-Chih Chang (Taiwan)	
FP-2-1	15:40-15:50	Differential Impact of Mechanical Circulatory Support on Adult and Pediatric Fulminant Myocarditis Patients with Cardiogenic Shock Yu-Tang Wang (Taiwan)
FP-2-2	15:50-16:00	Superiority of Central over Peripheral Strategy in Rescuing Post-Cardiotomy Shock Patients - A Chronological Study in A Tertiary Center Fan-Yen Lee (Taiwan)
FP-2-3	16:00-16:10	Development of Bi-national Living, Evidence-based Guidelines for the Use of Extracorporeal Membrane Oxygenation (ECMO) in Australia and New Zealand Madeline Wilkinson (Australia), Sally Newman (Australia)
FP-2-4	16:10-16:20	Role of Percutaneous Pulmonary Artery Cannulation in Extracorporeal Life Support for Acute Cardiac Failure Chun-Cheng Huang (Taiwan)
FP-2-5	16:20-16:30	Pediatric Ventricular Assist Device: Patient Characteristics and Outcome from A Single Center Sz-Han Yu (Taiwan)
FP-2-6	16:30-16:40	In Vitro Evaluation of Hemodynamic Energy Production and Circuit Loss using 4 Different ECMO arterial Cannulae Silver Heinsar (Australia)
FP-2-7	16:40-16:50	Decompression of Left Heart by Trans-septal Drain for the Patients with Cardiac Arrest Resulted from Acute Myocardial Infarction Fu-Chien Hsieh (Taiwan)

FP-2-8	16:50-17:00	Venovenous Extracorporeal Membrane Oxygenation (VV-ECMO) and Enhanced Blood Purification Therapy for Severe Sepsis with Respiratory Failure Sz-Han Yu (Taiwan)
FP-2-9	17:00-17:10	Association between Bleeding Complications and Rehabilitation Practice during Venovenous Extracorporeal Membrane Oxygenation: A Single Center Retrospective Observational Study Akira Kawauchi (Japan)
FP-2-10	17:10-17:20	Comparable Survival Using Extracorporeal Membrane Oxygenation Support for Acute Fulminant Myocarditis with Confirmed versus Unconfirmed Viral Etiology Lan-Pin Kuo (Taiwan)
FP-2-11	17:20-17:30	The Use of Venovenous Extracorporeal Membrane Oxygenation in COVID-19 Infection: Single Institution's Experience Chan-Yang Hsu (Taiwan)

Cardiac 6 - NeoChord Mitral Repair

Date: Oct. 30 | Time: 15:40-17:10 (GMT+8)

Room: 402AB, 4F

Moderator(s):		Kuan-Ming Chiu (Taiwan), Bor-Chih Cheng (Taiwan), Ron-Bin Hsu (Taiwan)
C6-1	15:40-16:10	Transapical Mitral Valve Repair with Neochordae Implantation: Patient Selection & European Cases Sharing Andrea Colli (Italy)
C6-2	16:10-16:40	Transapical Mitral Valve Repair with Neochordae Implantation: Patient Selection & Hong-Kong Cases Sharing Daniel Chan Tai-Leung (Hong Kong)
C6-3	16:40-17:10	Neochordae Technique in Mitral Valve Repair: Patient Selection & Taiwan Cases Sharing Nai-Hsin Chi (Taiwan)

Thoracic 6 - Other Lung Diseases

Date: Oct. 30 | Time: 15:40-17:10 (GMT+8)

Room: 402CD, 4F

Moderator(s):		Shah-Hwa Chou (Taiwan), Jiun-Yi Hsia (Taiwan)
T6-1	15:40-15:55	One-stage Thoracoscopic Resection for Bilateral Bronchiectasis Ming-Ho Wu (Taiwan)
T6-2	15:55-16:10	Application of Newly Developed Chest Drainage Bags in Thoracoscopic Surgery Ming-Ho Wu (Taiwan)
T6-3	16:10-16:40	Bronchoscopic Thermal Vapor Ablation for Emphysema Bing Lam (Hong Kong)
T6-4	16:40-16:55	Vascular Kv7 Channels Control Intracellular Ca²⁺ Dynamics in Smooth Muscle Yuan-Ming Tsai (Taiwan)
T6-5	16:55-17:10	Esophageal Stents with Minimally Surgical Intervention for Late Spontaneous Esophago-Cardiac Junction Perforation Qi-Yao Leow (Taiwan)

Sunday, October 31, 2021

ECMO: Keep Walking

Date: Oct. 31 | Time: 08:30-10:00 (GMT+8)

Room: 201, 2F

Moderator(s):	Nai-Kuan Chou (Taiwan), Richard Ming-Hui Lin (Taiwan)	
ECMO-1	08:30-08:50	ECMO Future Development Robert Bartlett (USA)
ECMO-2	08:50-09:05	Preclinical Evaluation of a Novel Centrifugal Pump and Driving Devices of the OASSIST ECMO System Bingyang Ji (China)
ECMO-3	09:05-09:20	How to Start a New Program in New Site and the Training System Richard Ming-Hui Lin (Taiwan)
ECMO-4	09:20-09:35	How to Establish Simulation Training in ECMO Peter Chi Keung Lai (Hong Kong)
ECMO-5	09:35-09:50	The Covid-Critical-How APELSO Created a Truly Global Collaborative and Data Registry John Fraser (Australia)
	09:50-10:00	Panel Discussion

YIA Oral & Best Poster Session

Date: Oct. 31 | Time: 08:30-10:00 (GMT+8)

Room: 301, 3F

Judge(s):	Shu-Chien Huang (Taiwan), Chih-Yuan Lin (Taiwan), Fan-Yen Lee (Taiwan)	
YB1 (YIA)	08:30-08:40	Role of Percutaneous Pulmonary Artery Cannulation in Extracorporeal Life Support for Acute Cardiac Failure Chun-Cheng Huang (Taiwan)
YB2 (YIA)	08:40-08:50	Pediatric Ventricular Assist Device: Patient Characteristics and Outcome from A Single Center Sz-Han Yu (Taiwan)
YB3 (YIA)	08:50-09:00	In Vitro Evaluation of Hemodynamic Energy Production and Circuit Loss using 4 Different ECMO arterial Cannulae Silver Heinsar (Australia)
YB4 (Best Poster)	09:00-09:07	Novel Use of Blood Speckle Tracking in Assessment of Intracardiac Blood Flow Following Extracorporeal Cardiopulmonary Resuscitation John Dyett (Australia)
YB5 (Best Poster)	09:07-09:14	Extracorporeal Membrane Oxygenation In Immunocompromised Patients With Acute Respiratory Distress Syndrome – A Retrospective Cohort Study Chiao-Feng Cheng (Taiwan)
YB6 (Best Poster)	09:14-09:21	Extracorporeal Cardiopulmonary Resuscitation during the COVID-19 Pandemic: a Pre-Post Observational Study Pauline Yeung Ng (Hong Kong)
YB7 (Best Poster)	09:21-09:28	The Influence Of Hormone Therapy To The Expression Of EGFR In Normal Lung Cells And Lung Adenocarcinoma Ying-Yi Chen (Taiwan)
	09:28-09:43	Award Ceremony

Cardiac 7

Date: Oct. 31 | Time: 08:30-10:00 (GMT+8)

Room: 402AB, 4F

Moderator(s):	Chwan-Yau Luo (Taiwan), Ping-Chun Li (Taiwan), Yi-Ting Tsai (Taiwan)
C7-1	08:30-09:00 Impella in Heart Failure Patients-When and Why? Carsten Tschoepe (Germany)
C7-2	09:00-09:30 The Syncardia Total Artificial Heart (TAH): Filling the Gap in Biventricular Failure Marvin J. Slepian (USA)
C7-3	09:30-10:00 Optimizing Donor Hearts and Outcomes: The Future Is Here Mani A. Daneshmand (USA)

Thoracic 7 - Free Papers

Date: Oct. 31 | Time: 08:30-09:45 (GMT+8)

Room: 402CD, 4F

Moderator(s):	En-Kuei Tang (Taiwan), Kuang-Tai Kuo (Taiwan)
T7-1	08:30-08:45 A Case with Triple Cancer in Lung, Esophagus and Liver with Regional Disease Meng-Wei Chung (Taiwan)
T7-2	08:45-09:00 Pulmonary Metastatic Angiosarcoma from Liver in A 63-year-old Woman: A Case Report Yu-Cheng Shen (Taiwan)
T7-3	09:00-09:15 Subsolid Pulmonary Nodules Detection Using Modified YoloV4 Model Chao-Chun Chang (Taiwan)
T7-4	09:15-09:30 Extended Resection for Locally Advanced Thoracic Cancer with Cardiopulmonary Bypass Yu-Wei Liu (Taiwan)
T7-5	09:30-09:45 Recurrence and Survival Outcomes of Segmentectomy and Lobectomy for 1-2 cm Non-small-cell Lung Cancer Mu-Chou Lin (Taiwan)

APELSO Country Present & Closing Ceremony

Date: Oct. 31 | Time: 10:30-12:00 (GMT+8)

Room: 201, 2F

Moderator(s):	John Fraser (Australia), Yih-Sharng Chen (Taiwan), Chien-Sung Tsai (Taiwan), Xiaotong Hou (China)
10:30-10:35	Australia Representative John Fraser
10:35-10:40	China Representative Xiaotong Hou
10:40-10:45	Hong Kong Representative Wai Ching, Simon Sin
10:45-10:50	India Representative Nilesh Mahale
10:50-10:55	Indonesia Representative Yan Efrata Sembiring

10:55-11:00	Japan Representative Shingo Ichiba
11:00-11:05	New Zealand Representative Shay McGuinness
11:05-11:10	Singapore Representative Kollengode Ramanathan
11:10-11:15	South Korea Representative Hwa Jin Cho
11:15-11:20	Taiwan Representative Chih-Hsien Wang
11:20-11:25	Thailand Representative Pranya Sakiyalak
11:25-11:30	Closing Remarks John Fraser
11:30-12:00	Welcome Message for 2022 APELSO by Prof. Xiaotong Hou Closing Ceremony

Cardiac 8 - Free Papers II

Date: Oct. 31 | Time: 10:30-12:00 (GMT+8)

Room: 402AB, 4F

Moderator(s):	Chaw-Chi Chiu (Taiwan), Fan-Yen Lee (Taiwan), Jiun-Yi Li (Taiwan)
C8-1	10:30-10:40 Waitlist Outcome of Pediatric Patients Supported with Ventricular Assist Device, Single Center Experience Hsun-Yi Fu (Taiwan)
C8-2	10:40-10:50 Pediatric Ventricular Assist Device: Patient Characteristics and Outcome from A Single Center Sz-Han Yu (Taiwan)
C8-3	10:50-11:00 Differential Impact of Mechanical Circulatory Support on Adult and Pediatric Fulminant Myocarditis Patients with Cardiogenic Shock Yu-Tang Wang (Taiwan)
C8-4	11:00-11:10 Heart Lung Machine or ECMO?: Beating Heart CABG for Patient with Acute Coronary Syndrome Necessitating Pre-operative ECMO Mao Ting (Taiwan)
C8-5	11:10-11:20 Percutaneous Decommissioning of Left Ventricular Assist Device Tzu-Hsien Chao (Taiwan)
C8-6	11:20-11:30 Superiority of Central over Peripheral Strategy in Rescuing Post-Cardiotomy Shock Patients - A Chronological Study in A Tertiary Center Fan-Yen Lee (Taiwan)
C8-7	11:30-11:40 Result of Minimally Incision Approach for CentriMag Left Ventricular Assisted Device Nai-Hsin Chi (Taiwan)
C8-8	11:40-11:50 Expand The Criteria for Heart Donation - A Case Report of Successful Heart Transplant Using A Donor Heart with Acute Myocardial Infarction Chieh-Fu Chen (Taiwan)
C8-9	11:50-12:00 Ventricular Assist Device As Bridge to Heart Transplantation: A Single Center Experience Chien-Ting Liu (Taiwan)

Thoracic 8 - Lung Transplantation

Date: Oct. 31 | Time: 10:30-12:00 (GMT+8)

Room: 402CD, 4F

Moderator(s): Wei-Hsun Chen (Taiwan), Wen-Chien Huang (Taiwan)

T8-1	10:30-11:30	Update on Portable Normothermic Ex Vivo Lung Perfusion to Improve Donor Quality for Lung Transplantation Gabriel Loor (USA)
T8-2	11:30-11:45	Systematic Review of Endoscopic and Surgical Management of Benign Central Airway Stenosis Chia-Chi Lee (Taiwan)
T8-3	11:45-12:00	Successfully Staging Surgery of Urgent Thoracic Endovascular Aortic Repair as A Bridge to Thoracic Aorta and Esophagus Reconstruction for Secondary Aorto-esophageal Fistula – A Case report Shuoying Dai (Taiwan)

Breakfast Symposium

Saturday, October 30, 2021

Breakfast Symposium (Sponsored by Edward)

Date: Oct. 30 | Time: 08:00-08:30 (GMT+8)

Room: 401, 4F

Moderator(s): Yih-Sharnng Chen (Taiwan)

BS-01 **The Case Sharing and 1 yr Clinical Outcome of EDWARDS INTUITY Elite from NTUH**
Nai-Hsin Chi (Taiwan)

Lunch Symposium

Saturday, October 30, 2021

Lunch Symposium 1 (Sponsored by Medtronic)

Date: Oct. 30 | Time: 12:00-13:30 (GMT+8)

Room: 201, 2F

Moderator(s): Chien-Sung Tsai (Taiwan), Hsiao-Huang Chang (Taiwan),
Pei-Leun Kang (Taiwan)

LS1-01 **TAVR for Low Risk Young Age-patients and Hemodynamic Matters**
Michael J. Reardon (USA)

LS1-02 **Cusp Overlap Technique for a Precise TAVR Procedure**
Hung-Yen Ke (Taiwan)

LS1-03 **Update of 5-year PERIGON Pivotal Trial and Clinical Implant Experience of AVALUS Aortic Valve**
Nai-Hsin Chi (Taiwan)

LS1-04 **Real-world Experiences of Aavalus in Korea**
Ho Young Hwang (South Korea)

Saturday, October 30, 2021

Lunch Symposium 2: Cardiac Surgery: Caring for a Patient and Managing Complications (Sponsored by Baxter)

Date: Oct. 30 | Time: 12:00-13:30 (GMT+8)

Room: 203, 2F

Moderator(s): Hsi-Yu Yu (Taiwan), Chih-Hsien Wang (Taiwan)

LS2-01 **Patient Blood Management in Cardiac Surgery**
Hsiao-En Tsai (Taiwan)

LS2-02 **ECMO and Acute Kidney Injury Needing CRRT**
Ramanathan K.R. (Singapore)

Saturday, October 30, 2021

**Lunch Symposium 3
(Sponsored by Abbott)**

Date: Oct. 30 | Time: 12:00-13:30 (GMT+8)

Room: 301, 3F

Moderator(s): Chien-Sung Tsai (Taiwan), Yih-Sharng Chen (Taiwan), Chwan-Yau Lau (Taiwan)

LS3-01 **ECMO to Temporary VAD, Outcome of Double Bridge**
Chih-Hsien Wang (Taiwan)

LS3-02 **VA-ECMO with Incorporating CMag Experience**
Amy E. Hackmann (USA)

LS3-03 **CentriMag ECMO for Covid 19 in India**
Arpan Chakraborty (India)

LS3-04 **Transportation Experience of CAMG in Australia**
Killian Paul O'Shaughnessy (Australia)

Saturday, October 30, 2021

**Lunch Symposium 4
(Sponsored by Getinge)**

Date: Oct. 30 | Time: 12:00-13:30 (GMT+8)

Room: 402AB, 4F

Moderator(s): Yih-Sharng Chen (Taiwan)

LS4-01 **ECMO on Covid**
Paul Ramesh Thangaraj (India)

LS4-02 **VV-ECMO Early Initiation**
Jun Hamaguchi (Japan)

Saturday, October 30, 2021

**Lunch Symposium 5
(Sponsored by BARD)**

Date: Oct. 30 | Time: 12:00-13:30 (GMT+8)

Room: 402CD, 4F

Moderator(s): Chia-Hsun Lin (Taiwan)

LS5-01 **Clinical Benefit about PowerPort ClearVUE: A Radiologist's Perspective**
Noboru Maeda (Japan)

LS5-02 **Totally Implantable Port Complication Treatment and Prevention Experience Sharing**
Ching-Yang Wu (Taiwan)

LS5-03 **International Guide for Peripheral Insert Central Catheter and Current Indication in Taiwan**
Chung-Dann Kan (Taiwan)

Sunday, October 31, 2021

**Lunch Symposium 6: What can Impella Offer in Cardiac Surgery – Extending Options for Bridge to & Innovative Concepts
(Sponsored by Abiomed and HsinTung Company)**

Date: Oct. 31 | Time: 12:30-14:00 (GMT+8)

Room: 201, 2F

Moderator(s): Jan Bělohávek (Czech Republic), Yih-Sharnng Chen (Taiwan), Chien-Sung Tsai (Taiwan), Kuan-Ming Chiu (Taiwan), Hsiao-Huang Chang (Taiwan), Feng-Chun Tsai (Taiwan)

LS6-01 **How does Impella Impact on Hemodynamics and How to Transfer This into Treatment Strategies?**

David Schibilsky (Germany)

LS6-02 **Prolonged Support with pMCS Making Bridge to Scenarios More Flexible**

Alexander M. Bernhardt (Germany)

LS6-03 **Combined Tx ECMO and pMCS – Where is There a Benefit in Cardiac Surgery?**

Jan Schmitto (Germany)

Workshop Program

Opening Ceremony

Date: Oct. 31 | Time: 08:30-08:35

Room: 403, 4F

08:30-08:35 **Opening Remarks**

Simulation Section - Scenario 1

Date: Oct. 31 | Time: 08:35-12:30

Room: 403, 4F

Group 1	Group 2	Yin-Tso Liu (Taiwan), Tzueng-Yuan Ho (Taiwan), Jin-Ye Chou (Taiwan)
08:35 - 08:50	10:40 - 11:00	Cardiac Arrest on ECMO
08:50 - 09:10	11:00 - 11:20	Sites and Technique of Cannulation, Pitfalls, Tips 'n' Tricks, Complications
09:10 - 09:50	11:20 - 11:50	ECPR Cutdown Cannulation
09:50 - 10:10	11:50 - 12:10	ECMO Complication and Management
10:10 - 10:30	12:10 - 12:30	Debriefing

Simulation Section - Scenario 2

Date: Oct. 31 | Time: 08:35-12:30

Room: 405, 4F

Group 1	Group 2	Meng-Yu Wu (Taiwan), Li-Jung Tseng (Taiwan), Hui-Ying Chi (Taiwan)
08:35 - 08:50	10:40 - 11:00	Respiratory Failure on ECMO
08:50 - 09:10	11:00 - 11:20	Sites and Technique of Cannulation, Pitfalls, Tips 'n' Tricks, Complications
09:10 - 09:50	11:20 - 11:50	Under ECHO Guide Cannulation and Ventilator Setting
09:50 - 10:10	11:50 - 12:10	ECMO Monitoring with Laboratory Interpret and Management
10:10 - 10:30	12:10 - 12:30	Debriefing

Virtual ECMO Workshop

Date: Oct. 31 | Time: 12:00-13:00

Room: 402CD, 4F

12:00-13:00 **ECMO Simulation Online for Foreign Countries by Getinge Company**

Lecture Section

Date: Oct. 31 | Time: 13:30-16:40

Room: 402AB, 4F

13:30 - 14:00	ECMO Overview and Physiology Shu-Chien Huang (Taiwan)
14:00 - 14:30	ECMO Indication Meng-Yu Wu (Taiwan)
14:30 - 15:00	ECMO Vascular Access and Complication Jun-Neng Roan (Taiwan)
15:00 - 15:10	Coffee Break
15:10 - 15:40	ECMO Component and Setup Chien-Heng Lai (Taiwan)
15:40 - 16:10	Anticoagulation and Trigger for Transfusion Yi-Ting Tsai (Taiwan)
16:10 - 16:40	ECMO Weaning and Decannulation Chih-Hsien Wang (Taiwan)

POSTER PRESENTATION

PO-01	Endotoxin Attachment to Extracorporeal Membrane Oxygenators in An Experimental Septic Shock Model Hwa Jin Cho (South Korea)
PO-02	Novel Use of Blood Speckle Tracking in Assessment of Intracardiac Blood Flow Following Extracorporeal Cardiopulmonary Resuscitation John Dyett (Australia)
PO-03	The Impact of Adult Ambulation Protocol for Extracorporeal Membrane Oxygenation Patients (AAP4ECMO) Implementation on ECMO Patients' Outcomes Valentina Obreja (USA)
PO-04	Early Mobility and Ambulation of Frail COVID-19 Adult Extracorporeal Membrane Oxygenation Patients Decrease Mortality Risk Valentina Obreja (USA)
PO-05	Extracorporeal Cardiopulmonary Resuscitation during the COVID-19 Pandemic: a Pre-Post Observational Study Pauline Yeung Ng (Hong Kong)
PO-06	Primary Outcomes of Xpand System for Transcatheter Aortic Valve Implanatation Oleksandra Telehuzova (Ukraine)
PT-01	Validation of the Qualities of Therapeutic Hypothermia in ECPR patients by Eight -Disciplines Problem Solving Method Jheng-Jie Li (Taiwan)
PT-02	Successfully Rescue A Pregnant Woman with Amniotic Fluid Embolism by Extracorporeal Membrane Oxygenation: A Case Report And Literature Review Hung-Yen Ke (Taiwan)
PT-03	Out-of-Center Extracorporeal Membrane Oxygenation Support – Experience of Keelung Chang Gung Memorial Hospital Tzu-Yen Huang (Taiwan)
PT-04	Clinical Efficacy of Microcirculation-Assisted Blood Flow Adjustment of Venoarterial Extracorporeal Membrane Oxygenation Life Support System: A Pilot Randomized Trial Chen-Tse Lee (Taiwan)
PT-05	Anticoagulation Monitoring Strategy in Venoarterial Extracorporeal Membrane Oxygenation: A Systematic Review Chun-Hung Liu (Taiwan)
PT-06	Extracorporeal Membrane Oxygenation in Immunocompromised Patients with Acute Respiratory Distress Syndrome – A Retrospective Cohort Study Chiao-Feng Cheng (Taiwan)
PT-07	Importance of Artificial Membrane Oxygenator's Pressure Gradient in Extra-corporeal Circulation System for Hemolysis Prevention Shyenlin Tsai (Taiwan)
PT-08	Optimal Target ACT in Venoarterial Extracorporeal Membrane Oxygenation: A Systematic Review Yi-Teen Wang (Taiwan)

PT-09	Multi-focal Pulmonary Atypical Adenomatous Hyperplasias (AAHs): Case Report and Review of Literature Shi-Ping Luh (Taiwan)
PT-10	The Value of Endobronchial Ultrasound-guided Transbronchial Needle Aspiration in Evaluating Accuracy of Re-biopsy in Lung Cancer Kuan-Liang Chen (Taiwan)
PT-11	The Influence of Hormone Therapy to the Expression of EGFR in Normal Lung Cells and Lung Adenocarcinoma Ying-Yi Chen (Taiwan)
PT-12	Treatment Strategy for Right Heart Metastasis of Low-Grade Endometrial Stromal Sarcoma: A Case Report Ching-Mao Yang (Taiwan)
PT-13	Experience In Treating Patients with Varicose Vein with Novel Device:Clarivein- A MMH Case Series Po-Lung Chen (Taiwan)
PT-14	Case Report: Repair and Revision Surgery for Mechanical Complication after a Venou-Port Catheter Insertion into the Common Carotid Artery Hsiao-En Tsai (Taiwan)
PT-15	Challenges of Cardiac Surgery in Patients with Nuss Bars: A Report of 2 Cases Chan-Yang Hsu (Taiwan)
PT-16	Internal Iliac Artery Aneurysm Presenting with Urinary Tract Infection and Hydroureteronephrosis: A Case Report Tz-Shin Luo (Taiwan)
PT-17	Total Arch Replacement Using Frozen Elephant Trunk Device: FEMH Experience Huey-Shiuan Kuo (Taiwan)
PT-18	Pulmonary Artery Sarcoma Mimicking Pulmonary Embolism Tin-Ann Chen (Taiwan)
PT-19	Successful Surgical Retrieval of An Entrapped Coronary Stent Balloon: A Case Report Shin-Rui Ng (Taiwan)
PT-20	Successful Debulking in Relieving Plexiform Neurofibromas Related Severe Airway Obstruction in An 8-year-old Boy with Neurofibromatosis Type 1 (NF1) Jen-Hao Hsiao (Taiwan)
PT-21	Veno-Venous Extracorporeal Membrane Oxygenation Support in Laryngeal Cancer— One Case Report Chih-Hsien Lee (Taiwan)
PT-23	Life-Threatening Distal Embolization from Rheumatic Mitral Stenosis: 2 Case Reports Hao-Chun Yu (Taiwan)
PT-24	Weekly, Monthly and Seasonal with Acute Type A Aortic Dissection in Taiwan Tzu-Yen Huang (Taiwan)