

Program

October 12, 2025

8 : 05 ~ Opening

8 : 15 ~ 9 : 30 Pediatric Extracorporeal Circulation Topics

1. **Myocardial Protection in the Pediatric Heart Surgery.** Institut Jantung Negara Current Practice
Ritha Chua (Malaysia)
Perfusion Unit, IJN
2. **Pediatric perfusion practice in Japan: 2022 Survey Results**
Hiroshi Taka (Japan)
Department of Clinical Engineering Center, Okayama University Hospital
3. **Pioneering Experience with Pediatric Left Ventricular Mechanical Support: Case Reporting with Perfusion Insights**
Vemalan Palanchiandiran (Malaysia)
Anesthesia and Intensive Care, Institut Jantung Negara
4. **Acute kidney injury after cardiopulmonary bypass in children**
Wei Wang (China)
Department of Pediatric Thoracic and Cardiovascular Surgery, Shanghai Children's Medical Center
5. **PEDIATRIC ECMO FOR PAP**
Kinnari Chudasama (India)
Lilavati Hospital and Research Centre

Moderator

- Yasuyuki Kuwabara (Japan)
Department of Clinical Engineering, Mt.Fuji Shizuoka Children's Hospital
- Ju Zhao (China)
Beijing AnZhen Hospital, Capital Medical University

9 : 35 ~ 11 : 25 The Future of Extracorporeal Circulation

1. **Extracorporeal Circulation in Japan: The Need for Closed-Circuit Innovation to Address Operator Dependency and Workforce Issues**
Takahiro Okumura (Japan)
Faculty of Health and Medical Care, Saitama Medical University
2. **Pediatric Cardiopulmonary bypass: in the future**
Fery Nurjayanto (Indonesia)
National Cardiac Center Harapan Kita Hospital
3. **The Next Frontier of Extracorporeal Circulation**
Chengbin Zhou (China)
Department of Cardiovascular Surgery, Guangdong Provincial Cardiovascular Institute, Guangdong Provincial People's Hospital, Guangdong Academy of Medical Sciences, Southern Medical University
4. **The Future of Extracorporeal Technology**
Gregory A. Mork (United States of America)
Extracorporeal Services Department, Rush University Medical Center

5. **The Future of Cardiopulmonary Bypass in the Philippine Settings**
Alma C. Luces (the Philippines)
6. **Development and Future Outlook of Extracorporeal Circulation in Taiwan**
Jin-Ye Chou (Taiwan)
Cardiovascular Surgery Division, Taipei Tzu Chi Hospital
7. **Emerging Artificial Intelligence in Cardiopulmonary Bypass Management**
Umpaipan Thana (Thailand)
8. **Advancements in Perfusion Practice: Innovations and Clinical Implications**
Lok Nath Tiwari (India)
Fortis Healthcare Ltd-Kolkata

Moderator

- Xiaotong HOU (China)
Extracorporeal Circulation and Mechanical Circulation Support, Beijing AnZhen Hospital, Capital Medical University
- Carlito Castrence D. Alzate (the Philippines)
Cebu Doctors University Hospital
- Kanokwan Demeekul (Thailand)
Department of Cardio-Thoracic Technology, Faculty of Allied Health Science, Naresuan University

11 : 30 ~ 12 : 20 Special Lecture

Clinical Ethics of Withdrawing Life-Sustaining Treatment in Japan – Practical Guidance for Clinical Perfusionists and ECMO Specialists

Kei Takeshita, MD, Ph.D. (Japan)
Department of Medical Ethics, Tokai University School of Medicine

Moderator

- Kent Doi, MD, Ph.D. (Japan)
Department of Emergency and Critical Care Medicine, The University of Tokyo Hospital

12 : 30 ~ 13 : 25 Luncheon Seminar

Hemocompatible coating for extracorporeal circulation materials -Technology, Principle, and our Investigations-

Masashi Tagaya (Japan)
Department of Medical Engineering, National Hospital Organization Kure Medical Center

Moderator

- Takeshi Goto (Japan)
Department of Clinical Engineering, Hirosaki University School of Medicine and Hospital

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13 : 40 ~ 15 : 05 Society's efforts to improve outcomes

1. **The American Society of ExtraCorporeal Technology and its efforts to improve surgical outcomes**
William Scott Snider (United States of America)
Perfusion Services, Duke University Hospital
2. **JaSECT's Initiatives to Standardize and Improve Safety in Cardiopulmonary Bypass and ECMO in Japan**
Takeshi Goto (Japan)

Department of Clinical Engineering, Hirosaki University School of Medicine and Hospital

3. **“When Less Is More”**

Leonard Cruz (Singapore)

CTVS, National University Hospital Singapore

4. **Efforts of Chinese Society of Extracorporeal Circulation to improve outcomes of ECLS**

Xiaotong Hou (China)

Extracorporeal Circulation and Mechanical Circulation Support, Beijing AnZhen Hospital, Capital Medical University

5. **EVOLUTION OF THE EXTRACORPOREAL LIFE SUPPORT CIRCUITRY**

Alok Kumar (India)

All India Institute of Medical Sciences

Moderator

- Tomoya Oshita (Japan)

Department of Clinical Engineering, The Sakakibara Heart Institute of Okayama

- Ricky Aditya (Indonesia)

Hasan Sadikin Hospital

- Rajendra Kokane (India)

The Indian Society of Extracorporeal Technology

(Poster Viewing)

15 : 40 ~ 16 : 40 Evening Seminar: Efforts to improve outcomes for patients with MCS

1. **International Assessment of Mechanical Circulatory Support in cultural infrastructures across Asia Pacific~ a New era in MCS**

Yuki Fujimura (Japan)

HF, Abbott Medical Japan LLC

2. **Blood Gas Management in ECPR: How Should It Be Done?**

Takahiro Miki (Japan)

Department of Clinical Engineering, Nihon University Hospital

3. **Post-cardiotomy MCS: which factors should be addressed to improve outcomes in adults**

Xin Li (China)

Cardiovascular Surgery, Zhongshan Hospital, Fudan University

4. **Efforts to Improve Outcomes for Patients with Mechanical Circulatory Support (MCS)**

Kanyarad Boonthim (Thailand)

Department of Surgery, King Chulalongkorn Memorial Hospital and the Thai Red Cross Society

Moderator

- Yuki Anno (Japan)

Clinical Engineering Department, Gunma Children's Medical Center

- Si Guim Goh (Singapore)

Department of CTVS, National University Hospital

- Lok Nath Tiwari (India)

Fortis Healthcare Ltd-Kolkata

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16 : 45 ~ 18 : 00 Cardiopulmonary bypass management for thoracic aortic surgery

1. **Cardiopulmonary bypass management in pediatrics and adults during aortic surgery; Harapan Kita Hospital Experiences**

Ayudia Putri (Indonesia)

National Cardiac Center Harapan Kita Hospital

2. **Cardiopulmonary bypass management for thoracic aortic surgery**

Si Guim Goh (Singapore)

Department of CTVS, National University Hospital

3. **Cardiopulmonary bypass Management in Thoracic Aortic Surgery**

Carlito Castrence D. Alzate (the Philippines)

Cebu Doctors University Hospital

4. **Cardiopulmonary bypass management for thoracic aortic surgery**

Ting Wu (China)

Tianjin Chest Hospital

5. **Total arch replacement with mild hypothermia**

Jinkwon Lee (Korea)

Bucheon Sejong Hospital

Moderator

- Tomohisa Takeichi (Japan)

Clinical Engineering, Kita-harima Medical Center

- Rajeev Gupta (India)

Dept of CTVS, AllMS New Delhi

18:00 ~ Closing

1. **Impacts of pulsatile perfusion and normothermia during CPB on maternal and fetal outcomes in pregnant women undergoing cardiac surgery**
Fumin Yu (China)
Guangdong Provincial People's Hospital, Guangdong Academy of Medical Sciences, Southern Medical University
2. **Association between Mean Arterial Pressure and Acute Kidney Injury in Patients Undergoing Oxygen Delivery-Guided Perfusion Strategies**
Yuki Minami (Japan)
Department of Clinical Engineering, Juntendo University Hospital
3. **Can thromboelastography and a global hemostasis assay be used to evaluate hemostatic ability during cardiopulmonary bypass surgery?**
Masashi Tagaya (Japan)
Department of Medical Engineering, National Hospital Organization Kure Medical Center
4. **Outcomes and complications of Impella versus IABP in cardiopulmonary bypass weaning failure**
Masaya Hori (Japan)
Department of Clinical Engineering, Hirosaki University School of Medicine and Hospital
5. **Development and Evaluation of an Automated Venous Reservoir Level Detection System Using Computer Vision for Cardiopulmonary Bypass**
Kiyotaka Fujii (Japan)
Kitasato University School of Allied Health Sciences
6. **Impact of Mini-Extracorporeal Circulation on Nitric Oxide and Renin Dynamics: A Prospective Observational Study**
Chen Ting Yu (Taiwan)
National Taichung University of Science and Technology
7. **Multilayer Perceptron-based Model for Estimating Hemoglobin Concentration at Initiation of Cardiopulmonary Bypass Using Case Records**
Shun Takahashi (Japan)
Department of Biomedical Engineering, Graduate School of Medical Science, Fujita Health University
8. **Colloid Oncotic Pressure in Conventional vs. Minimal Invasive Extracorporeal Circulation and Renal Implications**
Liu Chun Hung (Taiwan)
Asia University hospital
9. **Combined Antegrade Cerebral and Retrograde Inferior Vena Cava Perfusion in Aortic Arch Surgery: A single Center's Strategy**
Yan Liu (China)
Wuhan Asia Heart Hospital
10. **Clinical practice of low-intensity anticoagulation in adult VA-ECMO: single center experience**
Yan Liu (China)
Wuhan Asia Heart Hospital
11. **The comparison outcomes between Modified Del Nido and Standard Cardioplegia with Hemoconcentrator during Cardiopulmonary Bypass Surgery**
Kanokwan Demeekul (Thailand)
Department of Cardio-Thoracic Technology, Faculty of Allied Health Sciences at Naresuan Univ.
12. **Experimental Study on Heat Exchange Performance in Adult Membrane Oxygenators**
Fumio Chiba (Japan)
Department of Medical Informatics and Management, Hokkaido Information University
13. **Use of a double lumen venous cannula in hybrid V-AV ECMO for circulatory failure in a pediatric lung transplant candidate**
Hideo Kurosawa (Japan)

Department of Clinical Engineering, The University of Tokyo Hospital

14. **ECMO-Assisted Multiorgan Maintenance in Brain-Dead Donor: A Case Report Enabling Successful Transplantation of Four Recipients**
Qian Yan (China)
Extracorporeal Circulation Dept, Fuwai Hospital Chinese Academy of Medical Sciences, Shenzhen
15. **Evaluation of cerebral blood flow distribution during selective cerebral perfusion using a tissue oxygen saturation monitor**
Go Sato (Japan)
Juntendo University Hospital
16. **The Effects on Organs Function of Different Oxygen Partial Pressure Management in Neonates peri-Cardiopulmonary Bypass Period**
Ju Zhao (China)
Extracorporeal Circulation and Mechanical Circulation Support, Beijing AnZhen Hospital, Capital Medical University
17. **The impact of intraoperative hemoperfusion on acute kidney injury prevention after type A aortic dissection surgery repair**
Zi jian He (China)
Cardiovascular surgery, Guangdong Cardiovascular Institute, Guangdong Provincial People's Hospital
18. **Case report: Inflow cannula stenosis requiring HM3 pump exchange -HM3 parameters changes-**
Jumpei Shimoda (Japan)
Department of Clinical Engineering, Nippon Medical School Hospital
19. **The abdominal rSO₂ monitoring was useful during CPB in surgical repair of left isomerism with anomalous system venous connections**
Yayoi Kikawada (Japan)
Department of Clinical Engineering, Nippon Medical School Hospital
20. **Status and Safety of Fresh Frozen Plasma Administration During Cardiopulmonary Bypass in Japan**
Yuki Anno (Japan)
The Japanese Society of Extra-Corporeal Technology in Medicine
21. **Standalone Air Removal Performance of Oxygenators: A Comparative Study Under Closed-Loop Conditions**
Toru Yasuda (Japan)
Dept. of Clinical Engineering, Jichi Med Univ. Saitama MC
22. **Cardiopulmonary Bypass (CPB) Strategy for Infant Distal Arch Pseudoaneurysm Repair Using Deep Hypothermic Open Proximal Anastomosis**
Shinya Wani (Japan)
National Cerebral and Cardiovascular Center
23. **Effect of Different Heparin Administration Methods on Activated Clotting Time During Cardiopulmonary Bypass**
Osamu Sagae (Japan)
Department of Clinical Engineering, Hanaoka Seishu Memorial Hospital
24. **Factors Associated with Heparin Rebound After Cardiac Surgery Using Cardiopulmonary Bypass**
Ryuki Kimura (Japan)
Department of Medical Engineering, Hamamatsu University School of Medicine
25. **Clinical Outcomes of Femoral and Subclavian Cannulation in MICS: A Single-Center Experience**
Kohei Nagashima (Japan)
Department of Clinical Engineering, Toranomom Hospital
26. **Bridging the Evidence Gap: A Clinical Study on Transmembrane Pressure Monitoring and Hemolysis Reduction in ECLS**
Shyenlin Tsai (Taiwan)
Department of Cardiovascular Surgery, Taoyuan Armed Forces General Hospital