

## PROGRAMME

### Cardiac, Thoracic & Vascular

#### Tuesday, March 05, 2024

**Session Date/Time: Tuesday, March 5, 2024 - 08:15 - 09:45**

Exhibition Hall

#### **Cardiac, Thoracic & Vascular E-Poster Presentations: Session 1**

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Camila Machado De Souza, Canada*

**Poster Moderator**

*Abimbola Faloye, United States*

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#### **Cardiac, Thoracic & Vascular E-Poster Presentations: Session 10**

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Sara Jane Allen, New Zealand*

**Poster Moderator**

*Mathew Patteril, United Kingdom*

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Exhibition Hall

#### **Cardiac, Thoracic & Vascular E-Poster Presentations: Session 2**

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Alexander Mitnacht, United States*

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Exhibition Hall

### Cardiac, Thoracic & Vascular E-Poster Presentations: Session 3

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Justiaan Swanevelder, South Africa*

**Poster Moderator**

*Nian-Chih Hwang, Singapore*

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### Cardiac, Thoracic & Vascular E-Poster Presentations: Session 4

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Anantachote Vimuktanandana, Thailand*

**Poster Moderator**

*Stanton Sherman, United States*

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### Cardiac, Thoracic & Vascular E-Poster Presentations: Session 5

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Vijay Shetty, India*

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### Cardiac, Thoracic & Vascular E-Poster Presentations: Session 6

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Louise Sun, United States*

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**Poster Moderator**

*Deepak Prakash Borde, India*

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**Cardiac, Thoracic & Vascular E-Poster Presentations: Session 7**

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Guhrun Kunst, United Kingdom*

**Poster Moderator**

*Asad Latif, Pakistan*

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**Cardiac, Thoracic & Vascular E-Poster Presentations: Session 8**

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Himani Bhatt, United States*

**Poster Moderator**

*Yee-Eot Chee, Hong Kong, China*

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**Cardiac, Thoracic & Vascular E-Poster Presentations: Session 9**

All E-Posters will be showcased through a live 6-minute in-person presentation.

**Poster Moderator**

*Sheela Pai Cole, United States*

**Poster Moderator**

*Jessica Spence, Canada*

## PROGRAMME

**Session Date/Time: Tuesday, March 5, 2024 - 13:00 - 14:00**

MR 332 (Level 3)

### **Cardiac, Thoracic & Vascular Workshop: Severe RV Dysfunction after CPB**

Workshop Fee: 20 USD

1. Discuss etiology of RV dysfunction associated with cardiopulmonary bypass.
2. Describe diagnosis of RV dysfunction after CPB with case illustrations.
3. Review management approach for RV dysfunction.

- 13:00      **Chair: Severe RV Dysfunction after CPB**  
*Guðrun Kunst, United Kingdom*
- 13:02      **Review the Etiology of Severe RV Dysfunction after CPB**  
*Carlos Galhardo, Canada*
- 13:14      **Discuss Techniques of Diagnosing RV Dysfunction after CPB**  
*Vijay Shetty, India*
- 13:26      **Discuss Cases in Which Echo Made a Difference**  
*Deepak Prakash Borde, India*
- 13:38      **Review Management Pearls in RV Dysfunction**  
*Asad Latif, Pakistan*
- 13:50      **Questions and Answers**

**Session Date/Time: Tuesday, March 5, 2024 - 14:15 - 15:15**

MR 332 (Level 3)

### **Cardiac, Thoracic & Vascular Workshop: Cardiac Surgery in Those Refusing Blood Transfusion: Strategies and Challenges**

Workshop Fee: 20 USD

1. Discuss approach to assessment of patients refusing perioperative transfusion.
2. Describe strategies to limit blood loss and avoid transfusion.
3. Review challenges and limitations of these approaches.

- 14:15      **Chair: Cardiac Surgery in Those Refusing Blood Transfusion: Strategies and Challenges**  
*Sharon McCartney, United States*
- 14:17      **Discuss Approach to Preparing Patients Who Refuse Blood Transfusion**  
*Kai Dr. Dr. Zacharowski, Germany*
- 14:29      **Review Techniques for Blood Conservation**  
*Sheela Pai Cole, United States*
- 14:41      **Delineate Ethical Considerations in Patients Who Refuse Blood Transfusion**  
*Mathew Patteril, United Kingdom*
- 14:53      **Discuss Novel Approaches to Blood Conservation**  
*Louise Sun, United States*
- 15:05      **Questions and Answers**

**PROGRAMME****Session Date/Time: Tuesday, March 5, 2024 - 15:30 - 16:30**

MR 332 (Level 3)

**Cardiac, Thoracic & Vascular Workshop: Cardio-Thoracic Surgery: Guidelines & Controversies**

Workshop Fee: 20 USD

1. Discuss relevant and applicable practice guidelines in cardiothoracic anaesthesia.
2. Describe how the guidelines assist with management decisions.
3. Review challenges and limitations of applying practice guidelines.

- 15:30 **Chair: Cardio-Thoracic Surgery: Guidelines & Controversies**  
*Christopher Troianos, United States*
- 15:32 **Cardiopulmonary Bypass Guidelines: 5 Key Messages & 2 Controversies**  
*Gudrun Kunst, United Kingdom*
- 15:47 **TAA & EVAR Guidelines: 5 Key Messages & 2 Controversies**  
*Carlos Galhardo, Canada*
- 16:02 **Valvular Guidelines: 5 Key Messages & 2 Controversies**  
*Camila Machado De Souza, Canada*
- 16:17 **Questions and Answers**

**Session Date/Time: Tuesday, March 5, 2024 - 16:00 - 17:30**

MR 325 (Level 3)

**Cardiac, Thoracic & Vascular Workshop: Thoracic Workshop**

Workshop Fee: 90 USD

1. Demonstrate techniques of lung isolation.
2. Describe methods of using POCUS to assess lung pathology.
3. Demonstrate regional anaesthesia techniques in thoracic surgery.

**Breakout***Anantachote Vimuktanandana, Thailand***Breakout***Sara Jane Allen, New Zealand***Breakout***Mathew Patteril, United Kingdom***Breakout***Himani Bhatt, United States***Breakout***Vijay Shetty, India*

- 15:30 **Chair: Session Introduction**  
*Himani Bhatt, United States*

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- 15:32 **Challenging Airway Cases**  
*Himani Bhatt, United States*
- 15:42 **Pocus Views for Lung Ultrasound**  
*Sheela Pai Cole, United States*
- 15:50 **Regional Techniques, Including ES and TEA Techniques**  
*Vijay Shetty, India*
- 16:00 **Breakout**  
*Sheela Pai Cole, United States*
- 17:00 **Questions and Answers**

**Session Date/Time: Tuesday, March 5, 2024 - 16:45 - 17:45**

MR 332 (Level 3)

**Cardiac, Thoracic & Vascular Workshop: Neuroprotection in Cardiac Surgery**

Workshop Fee: 20 USD

1. Discuss etiology of various postoperative neurological complications after cardiac surgery.
2. Describe strategies for protecting neurological function during cardiac surgery.
3. Review challenges and limitations of neuroprotective techniques.

- 16:45 **Chair: Neuroprotection in Cardiac Surgery**  
*George Djaiani, Canada*
- 16:47 **Review Etiology of Postoperative Neurological Complications**  
*Hilary Grocott, Canada*
- 17:02 **Discuss Techniques for Preventing Neurological Complications after Cardiac Surgery**  
*Anantachote Vimuktanandana, Thailand*
- 17:17 **Delineate Techniques to Diagnose Cognitive Decline after Cardiac Surgery**  
*Nana Agya Prempeh, United States*
- 17:32 **Questions and Answers**

## PROGRAMME

### Wednesday, March 06, 2024

**Session Date/Time: Wednesday, March 6, 2024 - 08:30 - 10:30**

MR 334 (Level 3)

#### **Cardiac, Thoracic & Vascular Workshop: 3-D Echo Workshop**

Workshop Fee: 140 USD

1. Demonstrate techniques of optimising a 3-D echo dataset for post-processing.
2. Describe methods of cropping a 3-D echo dataset.
3. MV modelling.
4. Review methods of creating an optimal mitral valve model for surgical planning.

08:30 **Chair: Session Introduction**

*Ben O'Brien, Germany*

08:32 **Getting the Perfect 3D Dataset**

*Abimbola Faloye, United States*

09:02 **Cropping Your Dataset (Multiplanar Reconstruction)**

*Sheela Pai Cole, United States*

09:32 **Ventricular Assessment and Modelling**

*Madhav Swaminathan, United States*

09:52 **Valve Assessment and Modelling**

*Stanton Shernan, United States*

10:17 **Questions and Answers**

**Session Date/Time: Wednesday, March 6, 2024 - 08:30 - 09:30**

MR 325 (Level 3)

#### **Cardiac, Thoracic & Vascular Workshop: AI-Based Workshop in CT Anaesthesia**

Workshop Fee: 25 USD

1. Discuss the significance of artificial intelligence (AI) and machine learning (ML) in cardiothoracic anaesthesia.
2. Describe how AI and ML tools can assist with clinical decision support.
3. Review challenges and limitations of using AI and ML technology in cardiothoracic anaesthesia.

08:30 **Chair: Session Introduction**

*Stanton Shernan, United States*

08:32 **Clinical Applications of Artificial Intelligence: Clinical Workflow**

*Louise Sun, United States*

08:52 **Artificial Intelligence in Echocardiography**

*Nian-Chih Hwang, Singapore*

09:12 **Questions and Answers**

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**Session Date/Time: Wednesday, March 6, 2024 - 08:30 - 09:30**

MR 326 (Level 3)

### **Cardiac, Thoracic & Vascular Workshop: How to Get Published in CT Anaesthesia**

Workshop Fee: 25 USD

1. Discuss the principles of publishing articles from an editor's viewpoint.
2. Review common errors in scientific writing.
3. Describe considerations when selecting a journal for your scholarly work.

08:30	<b>Chair: Session Introduction</b> <i>Madhav Swaminathan, United States</i>
08:32	<b>What Editors Are Looking For</b> <i>Alexander Mittnacht, United States</i>
08:47	<b>Common Mistakes Writers Make</b> <i>Gudrun Kunst, United Kingdom</i>
09:02	<b>How to Pick the Right Journal</b> <i>Christopher Troianos, United States</i>
09:17	<b>Questions and Answers</b>

**Session Date/Time: Wednesday, March 6, 2024 - 09:45 - 10:45**

MR 326 (Level 3)

### **Cardiac, Thoracic & Vascular Workshop: ECMO Cases and Troubleshooting**

Workshop Fee: 25 USD

1. Review ECMO cases in which echo helped management.
2. Discuss tips and tricks for successful management of ECMO challenges.
3. Review different configurations of ECMO deployment and their goals.

09:45	<b>Chair: Session Introduction</b> <i>Sophia Chew, Singapore</i>
09:47	<b>ECMO Disasters - Echo Cases</b> <i>Mathew Patteril, United Kingdom</i>
10:02	<b>ECMO Disasters - Management Pearls</b> <i>Sharon McCartney, United States</i>
10:17	<b>Types of ECMO and the Challenges They Come With</b> <i>Abimbola Faloye, United States</i>
10:32	<b>Questions and Answers</b>

**Session Date/Time: Wednesday, March 6, 2024 - 11:15 - 12:15**

MR 331 (Level 3)

### **Cardiac, Thoracic & Vascular: Frontiers in CT Anaesthesia**



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1. Describe perspectives in enhancing education and research in cardiothoracic anaesthesia in developing countries.
2. Review options for regional analgesia in patients undergoing cardiothoracic surgery.
3. Discuss strategies to address cardiac surgery-associated acute kidney injury.

- 11:15      **Chair: Session Introduction**  
*Sharon McCartney, United States*
- 11:17      **Growing the Field of Cardiac Anaesthesia in Low-Resource Countries**  
*Asad Latif, Pakistan*
- 11:32      **The Growth of Regional Techniques in CT Surgery**  
*Vijay Shetty, India*
- 11:47      **AKI in Cardiac Surgery: Is There a Fix in Sight?**  
*Sophia Chew, Singapore*
- 12:02      **Questions and Answers**

**Session Date/Time: Wednesday, March 6, 2024 - 13:45 - 14:45**

405B (Level 4)

### Cardiac, Thoracic & Vascular: Mechanical Circulatory Support

1. Review advances and progress in mechanical circulatory support and implications for perioperative care.
2. Discuss approaches to perioperative echocardiographic imaging in patients with mechanical circulatory support devices.
3. Describe successful management of device complications in the perioperative period.

- 13:45      **Chair: Session Introduction**  
*Asad Latif, Pakistan*
- 13:47      **Updates in LVAD Support**  
*Anantachote Vimuktanandana, Thailand*
- 14:02      **Echo Pearls in MCS**  
*Sharon McCartney, United States*
- 14:17      **Perioperative Device Disasters**  
*Ben O'Brien, Germany*
- 14:32      **Questions and Answers**

**Session Date/Time: Wednesday, March 6, 2024 - 14:45 - 15:45**

405B (Level 4)

### Cardiac, Thoracic & Vascular: Echo Dilemmas

1. Describe approaches to address intraoperative detection of moderate mitral regurgitation.
2. Review diagnostic approaches and implications of low gradient aortic valve stenosis.
3. Discuss echocardiographic predictors of failed mitral valve repair.

- 14:45      **Chair: Session Introduction**  
*Sheela Pai Cole, United States*

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- 14:47      **The Dilemma of Moderate MR**  
*Sara Jane Allen, New Zealand*
- 15:02      **Low Gradient as Explained**  
*Yee-Eot Chee, Hong Kong, China*
- 15:17      **Predicting Failed Mitral Repair**  
*Deepak Prakash Borde, India*
- 15:32      **Questions and Answers**

**Session Date/Time: Wednesday, March 6, 2024 - 16:15 - 17:15**

406 (Level 4)

**Cardiac, Thoracic & Vascular: AI & Virtual Monitoring for Cardiac Surgery**

1. Discuss the significance of artificial intelligence (AI) and machine learning (ML) in monitoring critically ill patients.
2. Describe how AI and ML tools can assist with virtual monitoring.
3. Review challenges and limitations of using AI and ML technology for perioperative monitoring.

- 16:15      **Chair: Session Introduction**  
*Nian-Chih Hwang, Singapore*
- 16:17      **AI in Cardiothoracic Surgery: Perils and Promises**  
*Davy Cheng, China*
- 16:32      **Remote Automated Hemodynamic Monitoring in the Perioperative Setting: Ready for Prime Time?**  
*Janet Martin, Canada*
- 16:47      **Echo and Ultrasound for Long-Term Continuous Monitoring**  
*Christopher Troianos, United States*
- 17:02      **Questions and Answers**

**PROGRAMME****Thursday, March 07, 2024****Session Date/Time: Thursday, March 7, 2024 - 08:30 - 09:30**

MR 320 (Level 3)

**Cardiac, Thoracic & Vascular: Global Cardiac Surgery & Anaesthesia**

1. Discuss how cardiothoracic anaesthesia is practiced in resource poor areas of the world.
2. Describe novel approaches to ensure high-quality care around the world.
3. Review challenges and limitations of practice models in resource-poor regions.

08:30 **Chair: Session Introduction***Janet Martin, Canada*08:32 **Cardiac Ultrasound Training for Anaesthesiologists in Low- and Middle-Income Countries***Justiaan Swanevelder, South Africa*08:47 **Burden of Congenital Heart Disease in Low- and Middle-Income Countries***Nana Agya Prempeh, United States*09:02 **A Call for Global Cardiac Surgery & Anaesthesia Research Agenda***Giovanni Landoni, Italy*09:17 **Questions and Answers****Session Date/Time: Thursday, March 7, 2024 - 09:30 - 10:30**

MR 320 (Level 3)

**Cardiac, Thoracic & Vascular: Practice Changing Research in Cardio-Thoracic Anaesthesia**

1. Discuss research that has influenced perioperative management in cardiothoracic surgery.
2. Describe how this research may be adopted in practice.
3. Critically appraise recent research that has potential to change practice.

09:30 **Chair: Session Introduction***Janet Martin, Canada*09:32 **North American Perspectives - Top 3 Practice-Changing Papers***Jessica Spence, Canada*09:47 **European Perspectives - Top 3 Practice-Changing Papers***Giovanni Landoni, Italy*10:02 **Australasian Perspectives - Top 3 Practice-Changing Papers***Kate Leslie, Australia*10:17 **Questions and Answers****Session Date/Time: Thursday, March 7, 2024 - 10:50 - 11:50**

MR 320 (Level 3)

**Cardiac, Thoracic & Vascular: Evidence-Based Cardiothoracic Anaesthesia Reviews**

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1. Discuss the the significance of using evidence-based medicine (EBM) approaches in practice.
2. Describe how various health systems use EBM to improve quality of care and outcomes in cardiothoracic surgery.
3. Review challenges and limitations of using EBM approaches in cardiothoracic anaesthesia.

10:50 **Chair: Session Introduction**

*Kate Leslie, Australia*

10:52 **Perioperative Dementia, Stroke & Neurologic Outcomes**

*George Djaiani, Canada*

11:07 **Intraoperative Management: Which Anaesthetics? Which Monitors? What Targets?**

*Carlos Galhardo, Canada*

11:22 **Perioperative Fluid & Blood Management**

*Nana Agya Prempeh, United States*

11:37 **Questions and Answers**