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

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

Session Date/Time: Tuesday, March 5, 2024 - 08:15 - 09:45
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 Mittnacht, United States
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

Session Date/Time: Tuesday, March 5, 2024 - 08:15 - 09:45
Exhibition Hall
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 Sheman, United States

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

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

Cardiac, Thoracic & Vascular E-Poster Presentations: Session 7
All E-Posters will be showcased through a live 6-minute in-person presentation.

Poster Moderator
Gudrun Kunst, United Kingdom

Poster Moderator
Asad Latif, Pakistan

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

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

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

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
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
       Gudrun 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
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.

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
**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.

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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>16:45</td>
<td><strong>Chair: Neuroprotection in Cardiac Surgery</strong></td>
<td>George Djaiani, Canada</td>
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<tr>
<td>16:47</td>
<td><strong>Review Etiology of Postoperative Neurological Complications</strong></td>
<td>Hilary Grocott, Canada</td>
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<td>17:02</td>
<td><strong>Discuss Techniques for Preventing Neurological Complications after Cardiac Surgery</strong></td>
<td>Anantachote Vimuktanandana, Thailand</td>
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<tr>
<td>17:17</td>
<td><strong>Delineate Techniques to Diagnose Cognitive Decline after Cardiac Surgery</strong></td>
<td>Nana Agya Prempeh, United States</td>
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<tr>
<td>17:32</td>
<td><strong>Questions and Answers</strong></td>
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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 Sherman, 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 Sherman, 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
**Cardiac, Thoracic & Vascular Workshop: How to Get Published in CT Anaesthesia**

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 Chair: Session Introduction
*Madhav Swaminathan, United States*

08:32 What Editors Are Looking For
*Alexander Mittnacht, United States*

08:47 Common Mistakes Writers Make
*Gudrun Kunst, United Kingdom*

09:02 How to Pick the Right Journal
*Christopher Troianos, United States*

09:17 Questions and Answers

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

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 Chair: Session Introduction
*Sophia Chew, Singapore*

09:47 ECMO Disasters - Echo Cases
*Mathew Patteril, United Kingdom*

10:02 ECMO Disasters - Management Pearls
*Sharon McCartney, United States*

10:17 Types of ECMO and the Challenges They Come With
*Abimbola Faloye, United States*

10:32 Questions and Answers
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
Programme

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.

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
1. Discuss 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**