PROGRAMME
Cardiac, Thoracic & Vascular

Tuesday, March 05, 2024

Session Date/Time: Tuesday, March 5, 2024 - 08:30 - 09:30
Exhibition Hall
E-Poster Presentations: Cardiac, Thoracic & Vascular
All E-Posters will be showcased through a live 6-minute in-person presentation.

08:30 Details will be available by end January 2024.
   E-Poster Presentations,

09:30

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, Brazil

13:14 Discuss Techniques of Diagnosing RV Dysfunction after CPB
   Vijay Shetty, India

13:26 Discuss Cases in Which Echo Made a Difference
   Deepak 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
       Ben O'Brien, 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, Brazil

16:02  Valvular Guidelines: 5 Key Messages & 2 Controversies
       Daniel Bainbridge, Canada

16:17  Questions and Answers

Session Date/Time: Tuesday, March 5, 2024 - 15:30 - 17:00
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

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

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

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
Daniel Bainbridge, 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
       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
Session Date/Time: Wednesday, March 6, 2024  -  08:30 - 09:30
MR 336 (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  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

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  Chair: Session Introduction  
Sophia Chew, Singapore

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

10:02  ECMO Disasters - Management Pearls  
Daniel Bainbridge, Canada

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

10:32  Questions and Answers

Session Date/Time: Wednesday, March 6, 2024  -  11:15 - 12:15
MR 331 (Level 3)
Cardiac, Thoracic & Vascular: Frontiers in CT Anaesthesia
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

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<td>The Dilemma of Moderate MR</td>
<td>Sara Jane Allen, New Zealand</td>
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<td>15:02</td>
<td>Low Gradient as Explained</td>
<td>Yee-Eot Chee, Hong Kong</td>
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<td>15:17</td>
<td>Predicting Failed Mitral Repair</td>
<td>Deepak Borde, India</td>
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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.

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<td>16:17</td>
<td>AI in Cardiothoracic Surgery: Perils and Promises</td>
<td>Davy Cheng,</td>
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<td>16:32</td>
<td>Remote Automated Hemodynamic Monitoring in the Perioperative Setting: Ready for Prime Time?</td>
<td>Janet Martin, Canada</td>
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<td>16:47</td>
<td>Echo and Ultrasound for Long-Term Continuous Monitoring</td>
<td>Christopher Troianos, United States</td>
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**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**  
   *Agya Prempeh, United States*

09:02  **A Call for Global Cardiac Surgery & Anaesthesia Research Agenda**  
   *Giovanni Landoni, Italy*

09:17  **Questions and Answers**

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**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**

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**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

         Carlos Galhardo, Brazil

11:22    Perioperative Fluid & Blood Management
         Agya Prempeh, United States

11:37    Questions and Answers