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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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

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

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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

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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

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

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
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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
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 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
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 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
Sharon McCartney, United States

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 Church: 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 Church: 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 Church: Session Introduction  
Sheela Pai Cole, United States
The Dilemma of Moderate MR
Sara Jane Allen, New Zealand

Low Gradient as Explained
Yee-Eot Chee, Hong Kong, China

Predicting Failed Mitral Repair
Deepak Prakash Borde, India

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 Trojanos, 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

       Carlos Galhardo, Canada

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

11:37  Questions and Answers