



SCA 2020 Annual Meeting & Workshops
April 18-21, 2020
West Palm Beach, FL
PRELIMINARY SCHEDULE

Saturday, April 18

6:45 am – 7:55 am Structured Networking Circles

7:00 am – 8:00 am Problem Based Learning Discussions (1-6)

1. Lung Transplantation Management – Strategies, Tips and Tricks
Peter Slinger and Kenichi Ueda
2. ECMO in Thoracic Surgery
Rebecca Klinger and Eleanor Vega
3. How to Design and Implement a Thoracic ERAS Program at Your Hospital
Alessia Pedoto and Amanda Kleiman
4. Patient on LVAD for Thoracic Surgery
Wanda Popescu and Diana Anca
5. Esophagectomy
Jagtar Singh and Ju Mei Ng
6. Airway Crisis in the Thoracic Surgical Patient
Phil Hartigan and Stephen Collins

8:00 am – 10:00 am Refresher Course Lectures
Moderator: Michael Eaton

Preserved EF Heart Failure
Jenny Kwak

What Do We Really Know about Preventing AKI?
Frederic T. Billings

Maximizing Neurologic Function – CPI
G. Burkhard Mackensen

Racial and Socioeconomic Disparities in Cardiovascular Care:
Past, Present and Future
Laurent Glance

Panel Discussion with Audience Participation

9:00 am – 12:00 pm Workshop 1: Mechanical Circulatory Systems



Moderators: Kamrouz Ghadimi and Jenny Kwak

Mechanical Circulatory Support and Echocardiography
Michael Manning

Troubleshooting ECMO Disasters: Tips and Tricks
Michael Mazzeffi

New and Emerging Technologies
James Anton

Station Faculty:
LVAD (HVAD, HM3)
James Anton
Joseph Meltzer

ECMO
Michael Mazzeffi
David Chabot

CPBypass
Michael Manning
Karen Jones-Smith

Percutaneous MCS (TandemHeart, Impella, IABP)
Vidya Rao
Jacob Gutsche

9:00 am – 12:00 pm

Workshop 2: Professional Development
Moderators: Emily Methangkool and Candice Montzingo

Where Will You Be in 5 years? Setting the Goals
Daryl Oakes

The Art of Saying No - Essential Time Management Skills
Lavinia Kolarczyk

How to Deliver a Mind-Blowing Presentation
Mary Beth Brady

Tips on Negotiating for What You Need and Want
Jacques Neelankavil

Station Faculty:
Networking 101 – How to Perfect Your “Elevator Pitch”
Lavinia Kolarczyk
Jonathan Leff

Mentorship and Sponsorship – How to Be a Good Mentor/Sponsor and
Mentee/Sponsee
Natalia Ivascu



Jessica Spellman

Negotiation Practicum

Andrew Shaw

Christopher Troianos

Michael Eaton

Mark Taylor

Gordon Morewood

Peter Panzica

Kathy Glas

Davy Cheng

Colleen Koch

How to Build Your Resume for Future Leadership

Daryl Oakes

Teresa Mulaikal

10:00 am – 10:30 am Coffee Break

10:30 am – 12:00 pm SCA/STS: My Patient is a Cyborg - Part Human, Part Machine

Moderator: Charles Nyman

The Right Device for the Right Surgeon - Surgeon-Device Compatibility: Why This Impacts Outcomes

Steve Singh

Controversies/Complications in ECMO

Annemarie Thompson

Echo Guidance to Optimize Mechanical Circulatory Support

M. Megan Chacon

Case Discussion - My MCS Patient is Failing, Now What?

Panel

10:30 am – 12:00 pm Opioid and Benzodiazepine Free Cardiac Surgery: Where Are We?

Moderator: Mary Beth Brady

Methadone for Cardiac Surgery: Short and Long-Term Pain Management

Glenn Murphy

Regional Anesthesia

Stephanie Ibekwe

Benzodiazepines in Cardiac Surgery

Jessica Spence

Opioid-Free Cardiac Anesthesia: Is it for Everyone?

Michael Grant

Panel Discussion with Audience Participation



- 11:00 am – 12:00 pm Complex Case Poster Presentations: Session 1**
- 12:00 pm – 1:00 pm Lunch Break**
- 1:00 pm – 2:30 pm Bleeding the System Dry? Recombinant Coagulation Factors in Cardiac Surgery Patients**
Moderators: Candice Montzingo
- The ACT is Still 300! Managing Heparin Resistance
Alycia Wanat-Hawthorne
- The Patient is Still Bleeding! Diagnosing Coagulopathy in the Cardiac O.R.
Brittney Williams
- Factor Concentrates are Better than Blood Products for Bleeding in Cardiac Surgery
Neil Blumberg
- Blood Products are Better than Factor Concentrates for Bleeding in Cardiac Surgery
Nicole Acquisto
- Panel Discussion with Audience Participation
- 1:00 pm – 2:30 pm Promoting Leadership in Cardiac Anesthesia**
Moderators: Heather Lander and Sasha Shillcutt
- The Emotionally Intelligent Leader
Sasha Shillcutt
- How to Send the Elevator Down – QA on Mentorship and Sponsorship
Colleen Koch
- Lessons from the Top – Panel Discussion with Society Leaders
Michael Eaton, Kathryn Glas, Andrew Shaw, Christopher Troianos
- Panel Discussion with Audience Participation
- 1:00 pm – 3:30 pm Fellow & Resident Program**
- A Career in Cardiothoracic Anesthesiology: Mission Possible
Heather Lander, William Culp, Reed Harvey, Rebecca Aron, Bruce Bollen, John Fox
- 2:00 pm – 3:30 pm Fellow & Resident PBLD: Left heart catheterization with ECMO support**
- 2:30 pm – 3:30 pm Social Media for the Cardiac Anesthesiologist**
Moderator: Emily Methangkool
- Getting Started in Social Media - Dos and Don'ts
Emily Methangkool



Creating and Maintaining a Digital Presence
Sheela Pai Cole

Spreading Your Research - Opportunities for Networking and Education
Jiapeng Huang

Panel Discussion with Audience Participation

2:30 pm – 3:30 pm

Cardiac Surgery in 2030 - Looking Back to Predict the Future
Moderator: Charles Nyman

Looking Back to Look Forward: A Surgeon's Prediction for 2030
R. Morton Bolman

An Anesthesiologist's Prediction for 2030
Davy Cheng

2:30 pm – 5:30 pm

Workshop 3: Perioperative Ultrasound: POCUS - It Seems to be EVERYWHERE! Here's How to Use It
Moderators: Bradley Coker and Shahzad Shaefi

How POCUS and TTE Have Expanded My Practice
Megan Kostibas

POCUS: The Present, the Future, and SCA Perioperative Ultrasound Program
M. Megan Chacon

Station Faculty:

FAST Examination
Laeben Lester
Ravi Joshi

FOCUS Cardiac Examination
Georges Desjardins
Megan Kostibas

CPR and TEE
Walker Thomas
Massimiliano Meineri

Vascular Access
Stephanie Ibekwe
Jochen Steppan

The Basic TTE Exam and Comparison TEE Views
M. Megan Chacon
Sajid Shahul

Lung-Hypoxia/Dyspnea
Nicholas Markin
Vidya Rao



- 2:30 pm – 5:30 pm** **Workshop 4: ERACS: Design the System, Tailor the Anesthesia, and Enhance Your Patient’s Recovery**
Moderators: Michael Grant and James Anton
- Introductions & Workshop Overview
James Anton
- An Overview of ERP for Cardiac Surgery
Michael Grant
- Station Faculty:**
Program Development & Implementation
Daniel Engelman
Alexander Gregory
- Opioid-Sparing, Multimodal Analgesia and Delirium Prevention
Michael Grant
Rafael Cabrales
- Prevention of Acute Kidney Injury – Goal-Directed Perfusion & Acute Kidney Injury Algorithm
Viachaslau Barodka
Michael Manning
- Regional Analgesia Workstation
Jean Pierre Ouanes
Jeff Gadsden
- 3:30 pm – 4:00 pm** **Coffee Break**
- 4:00 pm – 5:00 pm** **Complex Case Discussion with Expert Panel**
Moderators: Tara Brakke and Jacques Neelankavil
Panelists: Matthew Fischer, John Fox, Ratna Vadlamudi
- 4:00 pm – 5:30 pm** **Descending Thoracic Aorta Emergencies: Surgical and Anesthesia Care Best Practice**
Moderator: Raghavendra Govinda
- Treatment Options for the Descending Thoracic Aorta in Patients with Acute Type B Dissections
Michael Singh
- Surgical Management of the Patient with Ruptured Descending Aortic Aneurysms: Endo VS Open
Thomas Lindsay
- Optimizing Outcomes in Emergency Surgery on the Descending Aorta
Adrienne Warrick
- Panel Discussion with Audience Participation



4:00 pm – 5:30 pm **Evaluation and Decision Making in Mitral Valve Repair**
Moderator: Paul Lennon

Case Presentation
Paul Lennon

2D/3D Imaging of the Repaired Mitral Valve
Julie WYROBEK

A Less than Perfect Mitral Valve Repair: What's Next?
Steven Bolling

Anesthetic Management When a Mitral Valve Repair is Not Perfect
Kimberly Howard-Quijano

5:00 pm – 6:00 pm **Complex Case Poster Presentations: Session 2**

Sunday, April 19

7:00 am – 8:00 am **Problem Based Learning Discussions (7-12)**

7. Perfusion Secrets - What You Should Know but Probably Don't
Vidya Rao and David Chabot
8. Managing the Adult Congenital Patient for Elective Surgery: Including a Surgeon's Perspective
Alexander Mittnacht and Luca Vricella
9. The Economics of Cardiac Anesthesia: From Bundled Payments to Pay-for-Performance and Everything In Between
Amanda Rhee and Peter Panzica
10. Management of Challenging Arrhythmias - Unravelling This Puzzle
Jacques Neelankavil and Candice Montzingo
11. Severe Pulmonary Hypertension and Noncardiac Surgery - No Need to Be Afraid
Jochen Steppan and Joanthan Leff
12. Performing at Your Peak: Principles of Time and Energy Management and How to Bring Intentionality to Your Personal and Professional Life
Yasdet Maldonado and Tjorvi Perry

8:00 am – 9:00 am **Earl Wynands Lecture**
Moderator: Michael Eaton

Resuscitation Ethics: Why Do We Bother!?
Peter Brindley

9:00 am – 10:30 am **ERACS: From Ideas to Implementation**
Moderator: Ratna Vadlamudi



ERACS Outside of the OR
Emily Teeter

ERACS: The Surgeon's Perspective
Daniel Engelman

ERACS: Cost in the Perioperative Period
Michael Grant

Team-Based Approaches to Enhanced Recovery
Patricia Keegan

9:00 am – 12:00 pm **Workshop 5: Interventional Workshop — Hands-on Workshop with the Experts: Learn the Secrets, Play with the Toys**
Moderators: Nadia Hensley and Nelson Thaemert

Station Faculty:

PBLD: Transcatheter Valves -- Where Can We Put Them?
James (Jake) Abernathy
Choy Lewis

LAA Occlusion Equipment and Imaging
Trevor Szymanski
Erik Anderson

TAVR Equipment
Nadia Hensley

Mitraclip PBLD
Carly Peterson
James Lee

Mitraclip Qlab Analysis
Michele Sumler
M. Megan Chacon

Mitraclip Equipment
Charles Nyman

10:30 am – 11:00 am **Coffee Break with Exhibitors**

11:00 am – 12:30 pm **Approaching Adult Congenital Heart Disease – From Uncertain to Fearless!**
Moderator: Mary Beth Brady, Jochen Steppan

The Surgical History of Congenital Heart Disease – Why These Numbers Continue to Increase
Luca Vricella

Perioperative Echocardiography Pearls for the Adult with Congenital Heart Disease



Wanda Miller-Hance

Management Strategies for the Anesthesiologist Taking Care of Adults with
Congenital Heart Disease

Alexander Mitnacht

Postoperative Care of Patients with Adult Congenital Heart Disease –
Management in the ICU and Long-Term Outcomes

Jill Cholette

11:00 am – 12:30 pm Super Echo Panel

Moderators: Kathryn Glas and Ratna Vadlamudi

Panelists: Donna Greenhalgh and Nicholas Markin

11:00 am – 12:30 pm RV Failure after LVAD - What Do We Do Now?

Moderator: Sreekanth Cheruku

Assessing RV Function after LVAD: TEE to the Rescue

Karsten Bartels

Medical Management of RV Failure after LVAD: Optimizing Preload, Afterload
and Contractility

Daryl Oakes

PVADs and BiVADs: When Medical Management Fails

Ravi Joshi

12:30 pm – 1:30 pm Lunch Break with Exhibitors

12:30 pm – 1:30 pm Scientific Program Poster Presentations: Session 1

1:30 pm – 3:00 pm The Surgical Management of Atrial Fibrillation

Moderator: Jacques Neelankavil

Surgical Approaches for the Treatment of Atrial Fibrillation

Nick Markin

Left Atrial Appendage Closure: What are the Devices and What's the Evidence?

David Huang

Current Status of Transcatheter Ablation for Atrial Fibrillation: A Cardiologist's
Perspective

Eric Buch

1:30 pm – 3:00 pm Resilience: Building Skills to Endure Hardship

Moderators: Candice Montzingo and Sasha Shillcutt

Personal Stories

Jonathan Ho

Jonathan Mark



Linda Shore-Lesserson
Annemarie Thompson

Panel Discussion

1:30 pm – 3:00 pm **Updates in Aortic Surgery: Root to Arch**
Moderator: Raghavendra Govinda

NIRS, BIS, EEG-What Should We Be Using for Neuro Monitoring in Aortic Surgery?
Choy Lewis

Risky Business? Risks and Outcomes in Aortic Root Surgery
Prashanth Vallabhajosyula

Antegrade vs Retrograde Cerebral Perfusion-Do We Have a Consensus?
Bradley Leshnower

2:30 pm – 5:30 pm **Workshop 6: Advanced TEE – Quantification for the Qualified – Advanced Echo Modalities for Practical Use**
Moderators: Jennifer Hargrave and Kimberly Howard-Quijano

Contrast Echocardiography
Richard Sheu

Advanced TEE Case Discussions
Alina Nicoara

Station Faculty:
Right Ventricle Quantification
Alina Nicoara
Feroze Mahmood

Mitral Valve Measurements
Douglas Shook
Stanton Shernan

Cardiac Deformation
Kathirvel Subramanian
Andra Duncan

3D Aortic Valve Assessment
Nikolaos Skubas
Richard Sheu

3:00 pm – 3:30 pm **Coffee Break with Exhibitors**

3:00 pm – 5:30 pm **Best of Meeting Oral Abstract & SCA Early Career Investigator Award Presentations**
Moderator: Mihai Podgoreanu

3:30 pm – 5:30 pm **ECMO A to Z**



Moderator: Jenny Kwak

Balancing Act: The Art of Coagulation
Anahat Dhillon

Nuts and Bolts of ECMO
Karsten Bartels

ECMO Centers of Excellence: Do We Go There?
Vadim Gudzenko

A Deeper Dive into the Finances of ECMO
Gordon Morewood

3:30 pm – 5:30 pm Complications in Cardiac Anesthesia - Human Factors, Systems Engineering, Patient Factors
Moderator: Nadia Hensley

Introduction to Patient Safety and Just Culture
James Abernathy

Advantages/Disadvantages of Adverse Event Reporting Systems to Identify Signals
Amanda Rhee

How Do I Use Incident Analysis to Improve Safety?
Joyce Wahr

Best Practices in Morbidity and Mortality Conferences to Promote Safe Culture
Atilio Barbeito

5:30 pm – 6:30 pm Opening Reception

Monday, April 20

7:00 am – 8:00 am Problem Based Learning Discussions (PBLDs 13 – 18)

13. Nuts and Bolts of EP Ablations: Experts Share Their Secrets...and Their Fears
Diana Anca and Linda Shore-Lesserson

14. Arrest? Open the Chest! The New Protocol for Resuscitation of Patients Who Arrest After Cardiac Surgery
Megan Kostibas and Shahzad Shaefi

15. The Guidelines for Valvular Heart Disease - How to Make Sense of It All
Michele Sumler and Stanton Sherman

16. Stop the Bleeding: Our 2020 Guide to Hemostasis after Cardiac Surgery
Prakash Patel and Kamrouz Ghadimi



17. Destination to Where: Ethical Dilemmas in Mechanical Circulatory Support
Elvera Baron and Michael O'Connor

18. Perioperative Pain Management in Cardiothoracic Surgery in the Opioid Epidemic Era
Negmeldeen Mamoun and J. Mauricio Del Rio

8:00 am – 10:00 am Artificial Intelligence: The Dawn of a New Era in the Cardiac Operating Room

Moderator: Mihai Podgoreanu

A Framework for Artificial Intelligence in the Perioperative Period
Ira Hofer

From Rich Digital Health Datasets to Actionable Intraoperative Knowledge – The Promise and Challenges of AI Arriving to an OR Near You
Maxime Cannesson

Building the ICU of the Future: Syndrome Surveillance and Clinical Decision Support in the Intensive Care Unit
Tim Buchman

Applied Deep Learning Algorithms in the Perioperative Period
Vesela Kovacheva

10:00 am – 10:30 am Coffee Break with Exhibitors

10:30 am – 11:00 am ASA Update
Moderator: Stanton Shernan

11:00 am – 12:00 pm Keynote Lecture
Moderator: Stanton Shernan
Using Data Science to Improve CV Surgical Outcomes
Robert Califf

12:00 pm – 12:30 pm Business Meeting & Awards
Moderator: Stanton Shernan

12:30 pm – 1:30 pm Lunch with Exhibitors

12:30 pm – 1:30 pm Scientific Program Poster Presentations: Session 2

1:30 pm – 3:00 pm The Complex Bleeding Cardiac Patient
Moderators: Michael Eaton and Kamrouz Ghadimi

Just Say No: The Bleeding Jehovah's Witness Patient
Alycia Wanat-Hawthorne

Too Small to Fail: The Bleeding Complex Congenital Patient
Jill Cholette



Thin but Not Too Thin: Bleeding on ECMO
Jack Gutsche

Thick but Not Thick Enough: The Hypercoagulable Patient at Risk for Bleeding
Mike Mazzeffi

1:30 pm – 3:00 pm **Minimally Invasive - Maximally Difficult?**
Moderator: Heather Lander

Minimally Invasive Surgical Approaches - Do They Make a Difference?
Nelson Thaemert

Trendsetters: The Run-Down of Innovative, Minimally Invasive Surgical
Techniques and New Technology
Igor Gosev

Regional Anesthesia for Minimally Invasive Approaches
Megan Kostibas

When "Mini" Becomes "Maxi": The Challenging Intraoperative Decision to
Convert
Stephanie Jones

1:30 pm – 3:00 pm **EACTA - How to Make a Difference**
Moderator: Donna Greenhalgh

Update on Renal Protection Strategies in Cardiac Surgery
Marc Vives

New Vasopressors - Out of the Blue?
Eric de Waal

Increasing Contractility without Increasing Myocardial VO₂: Feasible?
Fabio Guarracino

Frailty in Cardiac Surgery: How to Assess It & Does It Matter?
Miguel Garcia

3:00 pm – 3:30 pm **Coffee Break**

3:30 pm – 5:00 pm **Evolving Roles of Cardiac Surgery and Anesthesia in the Era of
Transcatheter Interventions**
Moderator: Sreekanth Cheruku

The Evolving Role of the Cardiac Surgeon in Valvular Heart Disease
Kendra Grubb

The Interventional Cardiac Anesthesiologist - GA, MAC or Nothing?
Douglas Shook



Comparing Cost Between Catheter-Based and Open Surgical Treatments for Valvular Disease
Gordon Morewood

Interventional Imaging: Time for a Specific Fellowship?
Feroze Mahmood

3:30 pm – 5:00 pm

Anesthesia & Analgesia: State-of-the-Art
Moderator: Nikolaos Skubas

Association Between Postoperative Body Temperature and All-cause Mortality After Off-pump Coronary Artery Bypass Graft Surgery: A Retrospective Observational Study
Tae Kyong Kim

Preoperative Echocardiography for Patients with Hip Fractures Undergoing Surgery: A Retrospective Cohort Study Using a Nationwide Database
Hiroshi Yonekura

Characteristics of Dexmedetomidine Postconditioning in the Field of Myocardial Ischemia Reperfusion Injury
David Roth

Panel Discussion

3:30 pm – 5:30 pm

Best of Meeting Oral Abstract Presentations
Moderator: Sasha Shillcutt

5:00 pm – 6:30 pm

Echo Jeopardy
Moderators: Feroze Mahmood, Andrew Maslow, Peter Panzica

Tuesday, April 21

7:00 am – 8:00 am

Problem Based Learning Discussions (PBLDs 19 – 24)

19. Thoracic Disasters - What to Do When All Eyes Are on You
Maurizio Cereda and Wanda Popescu

20. Mitral Regurgitation: A Team-Based Approach to Decision-Making
Anne Cherry and Douglas Shook

21. VAD Emergencies - What to Do When You Have to Move Fast
Jenny Kwak and Joseph Meltzer

22. Sedation for High Risk Patients - When Anesthesia is the Riskiest Part of the Procedure
Ratna Vadlamudi and Laeben Lester



23. Allergic Reactions during Cardiac Surgery - An Update on How to Predict, Diagnose, and Treat
Jonathan Kay and Richard Wolman

24. Cardiovascular Implantable Electronic Devices (CIEDs) and Pacers: Everything You Want to Know but are Afraid to Ask!
Annemarie Thompson and Brett Cronin

8:00 am – 10:00 am **NACOR-AQI, MPOG, PQRS, SCA-STS – Is This Alphabet Soup or Can I Use a Quality Database to Affect Change?**
Moderator: Nadia Hensley

Making Sense of Big Data to Improve Cardiovascular Anesthesia Care: Opportunities through STS and MPOG
Mike Mathis

Nuts and Bolts of STS Database
Miklos Kertai

Performance Metrics in a Pay-for-Performance World
Laurent Glance

Converting Data to Practice: CPI 2020
Nanette Schwann

Panel Discussion with Audience Participation

10:00 am – 10:30 am **Coffee Break**

10:30 am – 12:00 pm **Don't (Let Your Patient) Be Shocked! What's New in EP?**
Moderators: Michael Essandoh and Jennifer Hargrave

Cardiac Sympathetic Denervation for VT/Vf
Brett Cronin

Non-Transvenous CIEDs: Anesthesia and Surgical Implications
Adam Dalia

Anesthesiologists Should Be Programming CIEDs Perioperatively
Peter Schulman

Anesthesiologists Should NOT Be Programming CIEDs Perioperatively
Jonathan Ho

10:30 am – 12:00 pm **Managing Critical Events During Organ Transplants**
Moderator: Jiapeng Huang

Managing Critical Events during Heart Transplantation
Kathirvel Subramaniam

Standardized Management for Liver Transplantation Emergencies
Susan Mandell



Managing Coagulopathy During Organ Transplantation
Tim Hayes

Managing Critical Events During Lung Transplant
Yong Peng

10:30 am – 12:00 pm **Supporting Women in Cardiac Anesthesia**
Moderator: Emily Methangkool

Work-Life Integration - How to Achieve Balance Without Burnout
Sasha Shillcutt

Engaging Men in Supporting Women
Madhav Swaminathan

Barriers to Advancement and How to Overcome Them
Daryl Oakes

1:00 pm – 2:00 pm **Problem Based Learning Discussions (PBLDs 25 – 29)**

25. Severe Right Ventricular Dysfunction after Cardiac Surgery - Everyone's Nightmare
Sreekanth Cheruku and Jonathan Ho

26. Perioperative Management of Patients on Novel Oral Anticoagulants - So Many Questions, All the Answers
Nadia Hensley and Michael Mazzeffi

27. Cardiovascular Disease and Pregnancy - What to Do When You are Taking Care of 2?
Sarah Smith and Draginja Cvetkovic

28. Left Atrial Appendage Device for AFib - Conundrums, Complications, and Everything in Between
Theresa Gelzinis and Noah Rolleri

29. VA ECMO: Perioperative Management...Made Crystal Clear!
Meena Bhatia and Priya Kumar

1:00 pm – 2:00 pm **The Forgotten Valve – Understanding the Contributions of the Pulmonic Valve**
Moderator: Jennifer Hargrave

The Role of the Pulmonic Valve and the Diseases that Impact Function
Michael Essandoh

Is the Pulmonic Valve Strong Enough for the Systemic Circulation? The Re-emerging Ross Procedure
Wanda Miller-Hance



Evolving Therapies for Pulmonic Valve Disease
Joanna Ghobrial

2:00 pm – 3:30 pm **SOCCA Session – Cardiac Critical Care: A Potpourri**
Moderator: Shahzad Shaefi

Vasoplegia - State-of-the-Art: Not Just Magic Bullets
Sheela Pai Cole

Deliverables: The Alphabet Soup of Quality Metrics on the CTICU
Avery Tung

Models of CTICU Coverage - A Pressing Issue: In-House Faculty, Residents,
APPs or TeleICU?
Peter Von Homeyer

Program Directors' Corner: Cardiac Critical Care Training - Changing Times?
Joseph Meltzer

2:00 pm – 3:30 pm **What's New in VADs? Who Cares (For the Patient)?**
Moderators: Michael Essandoh and Jacques Neelankavil

Pulsatility in the New VADs
Marcos Vidal-Melo

PRShould We Manage Contemporary LVADs Differently from Older Generation
LVADs?
Marc Stone

All Patients with MCS Should Be Cared for By a Cardiac Anesthesiologist
Pro: *Reed Harvey*
Con: *Julie WYROBEK*

2:00 pm – 5:00 pm **Workshop 7: 3D TEE – Principles, Essentials, and So Much More**
Moderators: Jiapeng Huang and Charles Nyman

3D: Modalities of Acquisition, Advantages, and Disadvantages
Alina Nicoara

How Do I Incorporate 3D for Percutaneous Interventions?
Charles Nyman

How Do I Incorporate 3D in the Operating Room?
Georges Desjardins

Station Faculty:

Basic 3D TEE I (GE Basic)
Anne Cherry

Advanced 3D TEE I (GE Advanced)
Emily Methangkool



Basic 3D TEE II (Philips Basic)
Laeben Lester
Michael Andrawes

Advanced 3D TEE II (Philips Advanced)
Alina Nicoara
Isaac Wu

Advanced 3D Quantification (QLab Station)
Charles Nyman
Michael Duggan

Advanced 3D TEE III (Siemens)
James Lee

2:30 pm – 5:30 pm

Fellow and Resident TEE Review

Moderators: Tara Brakke and Jacques Neelankavil

Ultrasound Physics
Daryl Oakes

Pitfalls and Artifacts
Michele Sumler

Hemodynamic Calculations
Mary Beth Brady

Congenital Heart Defects
Tiffany Williams

Prosthetic Valve Evaluations
Jonathan Leff

Panel Discussion

3:30 pm – 4:00 pm

Coffee Break

4:00 pm – 5:30 pm

Challenges in Cardiopulmonary Bypass

Moderator: Donna Greenhalgh

Treating Blood Pressure: More Harm Than Good?
Paul Lennon

When Things Go Wrong: Pump Accidents and CPB Safety
Karen Jones-Smith

Failure to Launch: When Is Failure to Wean CPB an Indication for ECMO?
Lee Feddy

Acidosis Cause for Worry? Aetiology, Prognostic Value & Management
Miguel Garcia



4:00 pm – 5:30 pm **Protective Ventilation for Thoracic Surgery**
Moderator: Wanda Popescu

Pulmonary Complications After Thoracic Surgery: Etiology and Pathophysiology
Maurizio Cereda

Optimal FiO₂ During Lung Surgery
Frederic Billings

Protective Ventilation Improves Outcomes in Thoracic Surgery
Pro: *Marcelo Gama De Abreu*
Con: *Randal Blank*