

# SCA 8<sup>TH</sup> ANNUAL THORACIC ANESTHESIA SYMPOSIUM

MAY 17, 2019 | CHICAGO, IL  
HYATT REGENCY CHICAGO



Wi-Fi Network Name: SCA2019  
Password: CHICAGO2019  
[www.scahq.org/TAS](http://www.scahq.org/TAS)



SOCIETY OF  
CARDIOVASCULAR  
ANESTHESIOLOGISTS  
Knowledge • Care • Investigation

# General Information

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## CME Information

Visit [www.scahq.org/TAS](http://www.scahq.org/TAS) to review general continuing medical education (CME) information for the meeting, including learning objectives and faculty financial disclosures.

### Accreditation Statement

The Society of Cardiovascular Anesthesiologists is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

### Designation Statement

The Society of Cardiovascular Anesthesiologists designates this live activity for a maximum of 9.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### How to Claim Your CME

To claim CME credit, visit [www.scahq.org/evaluations](http://www.scahq.org/evaluations) to complete your 2019 Thoracic Anesthesia Symposium (TAS) evaluations. **You must complete the evaluations by August 30, 2019, to claim credit.** The deadline will not be extended.

### Earn MOCA® Credit

The CME credits you earn at TAS can help fulfill your ABA Maintenance of Certification in Anesthesiology™ Part II credit requirement. Now, you also can earn Patient Safety credits for select sessions. Part II Patient Safety sessions are identified by the MOCA icon in the schedule.

**Please note:** To qualify for MOCA credit, you must attend the full session and complete a session evaluation. SCA reports Society members' Part II credits directly to ABA as a member benefit.

*Maintenance of Certification in Anesthesiology™ program and MOCA® are registered trademarks of the American Board of Anesthesiology®.*

*This activity offers up to 9.75 CME credits, of which 1.25 credits contribute to the patient safety CME component of the American Board of Anesthesiology's redesigned Maintenance of Certification in Anesthesiology™ (MOCA®) program, known as MOCA 2.0®. Please consult the ABA website, [www.theABA.org](http://www.theABA.org), for a list of all MOCA 2.0 requirements.*

### OnDemand Products

Annual Meeting OnDemand is an online library with more than 40 sessions from the meeting, including TAS. Revisit sessions you attended and participate in those you missed—anytime, anywhere. Plus, earn additional CME credits. Visit the OnDemand sales desk located near the Regency Ballroom registration desk to purchase the product onsite for a discounted rate!

### Disclaimer

The material presented in this activity represents the opinion of the speakers and not necessarily the views of SCA.

## Media Use

### Photography

Please be advised that throughout the meeting, photos may be taken for use in SCA marketing materials, including the e-newsletter and SCA Facebook and Twitter pages. If you do not consent to be photographed, please advise SCA management in writing at [info@scahq.org](mailto:info@scahq.org).

### Video Recording

By attending the SCA event or entering the event premises, you agree not to record or digitize any parts of the presentation.

## Networking With Our Exhibitors

TAS exhibits will be located in Regency Ballroom D from 7 am to 6 pm.

All attendees are invited to join our exhibitors and sponsors at the **Reception With Exhibitors** on Friday evening from 5:30 to 6 pm. Light refreshments will be offered. Attendees will have the opportunity to network with colleagues and industry partners.

## How to Connect

You're here. The content is great. You're surrounded by the best and brightest from the field of thoracic anesthesiology.

But are you getting the most from your attendance?



#SCATAS

### IT'S TIME TO CONNECT.

Up-to-date information on the meeting can be easily found by following @scahq on Twitter or liking the SCA Facebook page.

# SCA MEETING APP

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## Access the App

**Abstracts, evaluations, and syllabi** are available electronically. On the meeting app, attendees will have access to these materials before, during, and after the meeting. Access them two ways:

- Download the app to your mobile device or tablet. Search *SCA Meetings* in your app store.
- Visit [www.tripbuildermedia.com/apps/sca](http://www.tripbuildermedia.com/apps/sca).

All preregistered attendees received meeting app login instructions prior to the start of TAS. The meeting app can be accessed via a mobile device, tablet, or computer. **Log in with the email you used to register and the password CHICAGO2019.** Materials will be available through fall 2019.

## Session Engagement Tools

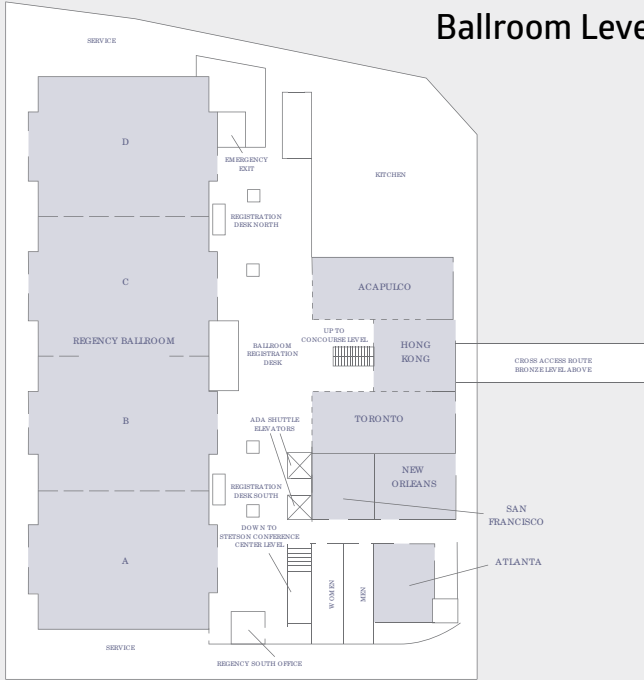
**Polling** allows speakers to ask the audience questions during their presentations and then display the responses in real time.

Use **Social Q&A** to submit your questions to the panelists during every presentation.

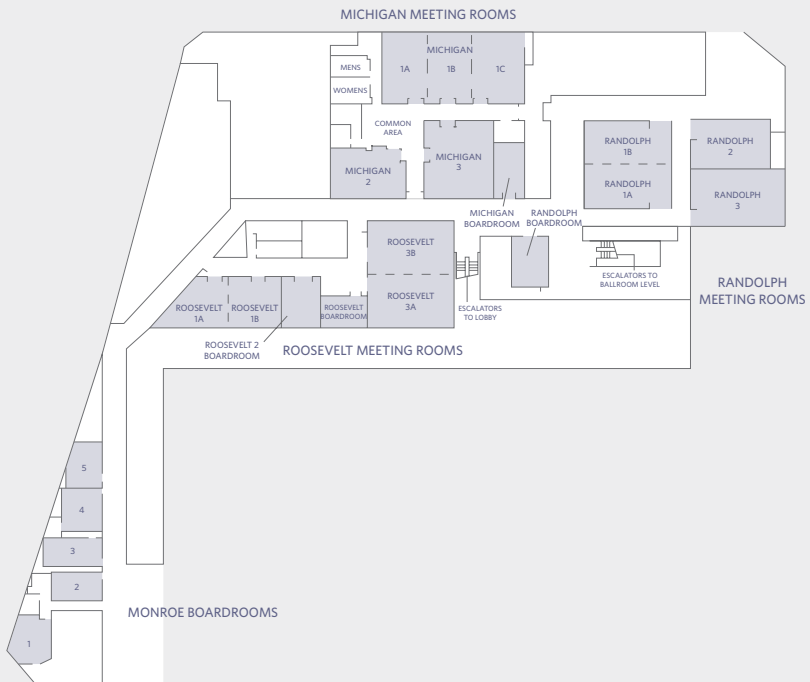
These engagement tools are found in the meeting app and will be used at nearly all sessions. Follow the steps below to access them:

- Click on the *Schedule* icon and select the session.
- Click on the *Polling* icon for both tools.
- Polling—When you see a question appear during the presentation, select the corresponding question under Polls to submit your response and watch as the votes come in!
- Social Q&A—Click the Ask button to submit a question. Did someone else already ask your question? Up-vote it by clicking the arrow icon.

## Ballroom Level – West Tower



## Concourse Level – East Tower



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## FRIDAY, MAY 17

**7 am–6 pm**

**Registration Open**

Regency Ballroom Registration Desk

**7–7:45 am**

**Continental Breakfast With Exhibitors**

Regency Ballroom D

**7:45–8 am**

**Opening Remarks**

Regency Ballroom BC

**8–9 am**

**Right Heart Matters!**

Regency Ballroom BC

*Moderator: Albert Perrino, MD*

8–8:15 am Why Can the RV Fail During Thoracic Surgery? **Theresa Gelzinis, MD**

8:15–8:30 am Monitoring the Right Ventricle in Thoracic Surgery **André Denault, MD**

8:30–8:45 am Pharmacologic Treatment of Acute Right Heart Failure **Rebecca Klinger, MD**

8:45–9 am Panel Discussion With Audience Participation

**9–9:45 am**

**Doc, I Can't Breathe!**

Regency Ballroom BC

*Moderator: Ju-Mei Ng, MD*

9–9:15 am Airway Management for Resection of Tracheal Stenosis **Wanda Popescu, MD**

9:15–9:30 am Trachea in a Box—Are We There Yet? **Laura Niklason, MD**

9:30–9:45 am Panel Discussion With Audience Participation

**9:45–10 am**

**Coffee Break With Exhibitors**

Regency Ballroom D

**10–10:30 am**

**Three Best Recent Papers**

Regency Ballroom BC

*Moderator: Peter Slinger, MD*

**10:30–11 am**

**Top Research Abstracts**

Regency Ballroom BC

*Moderator: Alessia Pedoto, MD*

(TAS01) Feasibility of Using an Algorithm for Cardiac Testing in Preoperative Assessment of Lung Cancer Patients

*David Watton, MD; Christopher Johnson, MD; Nadine Gauthier, MD; Eugene Leung, MD; Sylvain Gagne, MD; Donna Maziak, MDCM; Andrew Seely; Calvin Thompson, MD*

(TAS02) Single Lung Ventilation and Re-expansion Alter the Transpulmonary Plasma Metabolome in Swine: Proof of Concept for Metabolotrauma

*Arkadi Beloartsev, MD; Nathan Clendenen, MD; Paul Heerdt, MD*

(TAS03) Anesthetic Management of a Pulmonary Autotransplant of the Left Lower Lobe

*Matthew Gunst, MD; Gregory Janelle, MD*

# Schedule

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## 11 am–Noon

### Workshop Breakout 1

See page 13 for details.

## Noon–12:30 pm

### Poster Presentations

Regency Ballroom D

## 12:30–1 pm

### Lunch With Exhibitors

Regency Ballroom D

## 1–2 pm

### Workshop Breakout 2

See page 13 for details.

## 2–3 pm

### New Frontiers in Lung Cancer Surgery

Moderator: Philip Hartigan, MD

2–2:15 pm Anesthetic Implications of the Newest Chemotherapy **Alessia Pedoto, MD**

2:15–2:30 pm Novel Intrathoracic Imaging to Improve Surgical Resection **E. Andrew Ochroch, MD**

2:30–2:45 pm Is Robotic Thoracic Surgery Worth the Money? **Nabil Rizk, MD**

2:45–3 pm Panel Discussion With Audience Participation

Regency Ballroom BC

## 3–3:45 pm

### Too Old for Thoracic Surgery?

Moderator: Maria Castillo, MD

3–3:15 pm Risk Factors for Adverse Outcomes in the Elderly Patient **Shamsuddin Akhtar, MD**

3:15–3:30 pm New Developments in Our Understanding of Postoperative Cognitive Dysfunction **Hilary Grocott, MD**

3:30–3:45 pm Panel Discussion With Audience Participation

Regency Ballroom BC

## 3:45–4 pm

### Coffee Break With Exhibitors

Regency Ballroom D

## 4–4:30 pm

### Difficult Case? No Problem!

Moderator: Wanda Popescu, MD

(TAS04) Resection of a Massive Intrathoracic Mass in a Patient With Takotsubo Cardiomyopathy  
*Harry Garcia, MD; Prakash Patel, MD; John Augoustides, MD*

(TAS05) Challenges in Airway and Ventilatory Management in a Patient with Cornelia de Lange Syndrome Undergoing Video-Assisted Thoracoscopic Surgery (VATS)  
*Lauren Bonzelaar, MD; Jared Hooks, MD; Jayanta Mukherji, MB BS; Lisa Gramlich, MD*

(TAS06) Tracheoesophageal Fistula: Esophageal Diverticulum With Unanticipated Near-Complete Airway Obstruction in a 36-Year-Old  
*Samantha Abel, MD; Hisashi Tsukada, MD; Stephanie Yacoubian, MD*

Regency Ballroom BC

**4:30–5 pm**

## Preoperative Evaluation Improves Outcome

Moderator: Randal Blank, MD

4:30–4:45 pm Pro **Alessia Pedoto, MD**

4:45–5 pm Con **Albert Perrino, MD**

Regency Ballroom BC

**5–5:30 pm**

## Town Hall Meeting

Moderator: Jagtar Singh Heir, DO

Panelists: Randal Blank, MD; Javier Campos, MD; Philip Hartigan, MD; Alessia Pedoto, MD; Wanda Popescu, MD; Peter Slinger, MD

Regency Ballroom BC

**5:30–6 pm**

## Reception With Exhibitors

Regency Ballroom D

**6–7 pm**

## Who Wants to Be a Thoracic Millionaire?

Moderator: Ferenc Puskas, MD

Regency Ballroom BC

## SATURDAY, MAY 18

**6:30 am–6 pm**

## Registration Open

Grand Ballroom Registration

**7–8 am**

## Problem-Based Learning Discussions (PBLDs)

See page 12 for full schedule. Separate paid registration is required. Breakfast will be available on the Concourse Level (East Tower) beginning at 6:30 am. The sessions will begin promptly at 7 am.

**9 am–Noon**

## Annual Meeting Morning Workshops

See page 13 for full schedule. Separate paid registration is required.

**2:30–5:30 pm**

## Annual Meeting Afternoon Workshops

See page 13 for full schedule. Separate paid registration is required.

# Problem-Based Learning Discussions (PBLDs)

## SATURDAY, MAY 18

Separate paid registration is required. Breakfast will be available on the Concourse Level (East Tower) beginning at 6:30 am. The sessions will begin promptly at 7 am.

### **Lung Transplantation Management—Strategies, Tips, and Tricks** **Michigan 1A**

Moderators: Peter Slinger, MD; Kenichi Ueda, MD

### **ECMO in Thoracic Surgery** **Michigan 1B**

Moderators: Rebecca Klinger, MD; Eleanor Vega, MD

### **How to Design and Implement a Thoracic ERAS Program at Your Hospital** **Michigan 1C**

Moderators: Amanda Kleiman, MD; Alessia Pedoto, MD

### **Patient on LVAD for Thoracic Surgery** **Michigan 2**

Moderators: Wanda Popescu, MD; Diana Anca, MD

### **Esophagectomy** **Michigan 3**

Moderators: Ju-Mei Ng, MD; Jagtar Singh Heir, DO

### **Biventricular Dysfunction and Pulmonary Resection—Is There an EF Limit?** **Randolph 1A**

Moderators: Randal Blank, MD; Ryan Lesh, MD

# Hands-On Workshops

*Thoracic Anesthesia Symposium Workshop and PBLD Coordinator: Randal Blank, MD*

*Annual Meeting Workshop and PBLD Coordinator: Mary Beth Brady, MD*

## FRIDAY, MAY 17

*During the workshop breakout sessions at 11 am and 1 pm, attendees will participate in 1 of 4 possible workshops. Friday workshops are included in your registration fee. If you have any questions about your elected workshops, please visit the registration desk.*

### Topic A

#### Critical Procedural Skills

Regency A

*Moderators: Lavinia Kolarczyk, MD; Jason Long, MD*

*Faculty: Meena Bhatia, MD; Aaron Dahl, MD; Chandrika Garner, MD; Nazish Hashmi, MBBS; Amanda Kleiman, MD; Dinesh Kurian, MD; Negmeldeen Mamoun, MD; Will Rosenblatt, MD*

### Topic B

#### Lung Isolation: The Normal and Challenging Airway

Acapulco/Hong Kong

*Moderator: Kenichi Ueda, MD*

*Faculty: Diana Anca, MD; Brandi Bottiger, MD; Andrew Feider, MD; Richard Galgon, MD*

### Topic C

#### Regional Anesthesia

Toronto

*Moderator: Rebecca Klinger, MD*

*Faculty: Brett Elmore, MD; James Kim, MD*

### Topic D

#### Thoracic Ultrasound: Diagnosis and Management

San Francisco/New Orleans

*Moderator: Massimiliano Meineri, MD*

*Faculty: Sundar Krishnan, MBBS; Donn Marciniak, MD; Natalie Silverton, MD*

## SATURDAY, MAY 18 | ANNUAL MEETING WORKSHOPS

*Separate paid registration is required for Saturday workshops.*

### 9 am–Noon

Columbus A–F

#### Advanced TEE—Incorporating Advanced Echo Concepts Into Practice

*Moderators: J. Mauricio Del Rio, MD; Kimberly Howard-Quijano, MD*

#### Presentations:

Right Ventricle Quantification **Feroze Mahmood, MD**

Mitral Valve Measurements **Stanton Shernan, MD**

Cardiac Deformation **Kimberly Howard-Quijano, MD**

Hemodynamic Calculations **Alina Nicoara, MD**

#### Station Faculty:

Right Ventricle Quantification **Georges Desjardins, MD; Feroze Mahmood, MD**

Mitral Valve Measurements **Stanton Shernan, MD; Douglas Shook, MD**

Cardiac Deformation **Kimberly Howard-Quijano, MD; Nikolaos Skubas, MD**

Advanced Cases/Hemodynamics **Sharon McCartney, MD; Alina Nicoara, MD**

# Hands-On Workshops *(continued)*

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**9 am–Noon**

Columbus GIJ

## **ERACS: Design the System, Tailor the Anesthesia, and Enhance Your Patient's Recovery**

*Moderators: James Anton, MD; Michael Grant, MD*

### **Presentations:**

- An Argument for ERACS **Andrew Shaw, MB**
- The Anesthesiologist's and Intensivist's Role in ERACS **Michael Grant, MD**
- Current State of the ERACS Movement **Alexander Gregory, MD**

### **Station Faculty:**

- Program Development and Implementation **Alexander Gregory, MD; Gregory Nelson, MD**
- Opioid-Sparing/Free Anesthesia and Early Extubation **Rafael Cabrales, MD; Michael Grant, MD**
- Prevention of Acute Kidney Injury—Goal-Directed Perfusion and Fluid Management **Viachaslau Barodka, MD; Michael Manning, MD**
- Regional Analgesia Workstation **Jeff Gadsden, MD; JP Ouanes, DO**

**2:30–5:30 pm**

Columbus A–F

## **Perioperative Ultrasound: POCUS—It Seems to Be EVERYWHERE! Here's How to Use It**

*Moderators: Megan Kostibas, MD; Shahzad Shaefi, MD*

### **Presentations:**

- POCUS: The Present, the Future, and SCA Perioperative Ultrasound Program **Bradley Coker, MD**
- How POCUS and TTE Have Expanded My Practice **Davinder Ramsingh, MD**

### **Station Faculty:**

- FAST Examination **Ravi Joshi, MD; Laeben Lester, MD**
- FOCUS Cardiac Examination **M. Megan Chacon, MD; Georges Desjardins, MD**
- CPR and TEE **Massimiliano Meineri, MD; Walker Thomas, MHPTT**
- Vascular Access **Ricardo Cardenas, MD; Heather Hayanga, MD**
- The Basic TTE Exam and Comparison TEE Views **Bradley Coker, MD; Ashley Yager, MD**
- Lung-Hypoxia/Dyspnea **Davinder Ramsingh, MD; Vidya Rao, MD**

**2:30–5:30 pm**

Columbus GIJ

## **Electrophysiology—Making Sense of Pacemakers, ICDs, and Lead Extractions**

*Moderators: Jonathan Ho, MD; Candice Montzingo, MD*

### **Presentations:**

Pacemaker Function and Programming *Scott Streckenbach, MD*

Guidelines for Perioperative Management of Patients With a Cardiac Implantable Electrical Device *Emily Methangkool, MD*

Establishing a Perioperative Device Management Service *Ahmed Zaky, MD*

### **Station Faculty:**

Pacemaker Mode Selection *Emily Methangkool, MD; David Morgan, MD*

Perioperative ICD Therapy Management *Scott Streckenbach, MD; Ahmed Zaky, MD*

Magnet Use *Sreekanth Cheruku, MD; Eric Nelson, DO*

Lead Extractions *Kimberly Howard-Quijano, MD; Timothy Maus, MD*

## Poster Presentations

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### **(TAS07) Addition of Serratus Anterior Plane Block to Intercostal Nerve Blocks for Pain Control After VATS Lobectomy**

*Jacob Jackson, MD; Hao Zhang, MD; Dawn Desiderio, MD; Alessia Pedoto, MD; Alexandra Lewis, MD; David Amar, MD*

### **(TAS08) Prognostic Nutritional Index Is a Predictor of Both Short- and Long-term Outcomes After Curative Resection of Lung Cancer: A Retrospective Cohort Study**

*Hyun Joo Ahn, MD*

### **(TAS09) Low Intraoperative PaO<sub>2</sub>/FiO<sub>2</sub> Ratio After Bilateral Lung Transplantation Does Not Predict Low Postoperative PaO<sub>2</sub>/FiO<sub>2</sub> Ratio**

*Tjorvi Perry, MD; Megan Olejniczak, MD; Matthew Culling, MD; Stephen Richardson, MD; Daniel Siers; Stephen Huddleston, MD*

### **(TAS10) Safety and Feasibility of Non-Intubated Video-Assisted Thoracic Surgery (NIVATS): A Case Series**

*Megan Olejniczak, MD; Rafael Andrade, MD; Madhyri Rao, MD; Tjorvi Perry, MD*

### **(TAS11) Effect of Preoperative FFA on Coagulation Function and Prognosis of Patients With Infective Endocarditis After Cardiac Surgery**

*Lijuan Wang, MS; Hushan Ao, MD*

### **(TAS12) Association of SinoSCORE and Total In-Hospital Costs of Coronary Artery Bypass Graft**

*Sudena Wang, MD; Hushan Ao, MD; Yuefu Wang, MD; Xiaojie Liu, MD; Lijuan Wang, MS; Yang Yu, MD; Sipeng Chen, MS*

### **(TAS13) Inhaled Epoprostenol for the Treatment of Pulmonary Hypertension and Right Heart Failure in LVAD Recipients: A Retrospective Analysis**

*Belinda Lee, MD; Austin Kluis, BS; Ranjit John, MD; Tjorvi Perry, MD*

### **(TAS14) The Result of the Study on Double Lumen Tube Anaesthesia in Mongolian People**

*Bolormaa Batnasan, PhD*

### **(TAS15) Serratus Anterior Plane Block for Staged Thoracic Outlet Decompression in Paget-Schroetter Syndrome**

*Yeona Chun, MD; Arvind Rajagopal, MBBS*

### **(TAS16) Awake Video-Assisted Thoracoscopic Surgery for Metastatic Pleural Effusion and Metastatic Compression of the Right Atrium**

*Soshana Clerizier, MD; Alan Smeltz, MD; Lavinia Kolarczyk, MD*

### **(TAS17) Massive Mediastinal Teratoma Presenting Symptom: Smart Watch Tachycardia Alarm**

*Cory France, MD; Ryan Noska, MD*

### **(TAS18) Staged Induction of a Large, Symptomatic Posterior Mediastinal Mass and Monitoring of IV Drip Rates as a Real-Time Predictor of SVC Syndrome**

*Shawn Jackson, MD; Hisashi Tsukada, MD; Sergey Karamnov, MD*

### **(TAS19) Squamous Cell Lung Cancer With a Bronchopleural Fistula and Implications for an Intracranial Procedure**

*John McNeil, MD; Randal Blank, MD; Amanda Kleiman, MD*

### **(TAS20) Successful Application of VV-ECMO in a Patient With a Large Tracheoesophageal Fistula**

*Laura Gil, MD; Ashley Fritz, DO; Archer Martin, MD*



# Poster Presentations

**(TAS21) Bronchoscopic Debulking of Intratracheal Mass Under Femoro-Femoral Cardiopulmonary Bypass**

*Nik Ahmad Arif Nik Mohamed Zaki, MBBCh; Nik Ramziyah Samad, MBBS; Nazri Mohamed*

**(TAS22) Explosive Barotrauma During Liquid Nitrogen Therapy for Tracheal Stenosis**

*Steven Haddy, MD; Pete Roffey, MD; Tawfik Ayoub, MD; P. Michael McFadden, MD*

**(TAS23) Retrograde Tracheal Intubation (Case Reports in National Cancer Center of Mongolia)**

*Bolormaa Batnasan, PhD*

**(TAS24) A Rare Case of Unilateral, Basilar Giant Bullae Treated With Video-Assisted Thoracoscopic Resection**

*Leslie Matthews, MD; Lavinia Kolarczyk, MD*

**(TAS25) Postoperative Serratus Anterior Plane Continuous Catheter as an Analgesic Rescue Technique, After a Failed Thoracic Epidural, for an Ivor Lewis Esophagectomy With Laparotomy and Right Sided Thoracotomy**

*Lida Shaygan, DO; Pete Pelletier, MD*

**(TAS26) Iatrogenic Superior Vena Cava Stenosis After Bicaval Cannulation for Mitral Valve Surgery**

*Alec Runyon, MD; Donn Marciniak, MD; Marta Kelava, MD; Ranjani Venkataramani, MD*

**(TAS27) Re-expansion Pulmonary Edema**

*Jordan Schell, MD; Kristine Pearson-Chauhan, DO*

**(TAS28) Mediastinal Abscess: How to Induce?**

*Matthew Rowland, MD; Sergey Karamnov, MD*

**(TAS29) Persistent Intraoperative Hypotension During Esophagectomy**

*Matthew Rowland, MD; Ju-Mei Ng, MD; Jeffrey Swanson, MD*

**(TAS30) Audit of One Lung Ventilation Management in Thoracic Surgery**

*Kiranjit Khazan Singh, MB ChB; Andrew Gaunt, MB BS*

**(TAS31) Challenges in the Management of Isolated Right Ventricular Mechanical Support**

*Jerome Crowley, MD; Yvonne Lai, MD; Sarah Lojovich, CCP; Adam Dalia, MD*

**(TAS32) Preoperative Considerations and Induction of General Anesthesia in an Adult Patient With Symptomatic Pectus Excavatum**

*David Buric, MD; Marcelo DaSilva, MD; Sergey Karamnov, MD*

**(TAS33) Novel Application of 3D Reconstruction of Tracheobronchial Anatomy From Computed Tomography Imaging in Thoracic Anesthesia**

*Shravan Cheruku, MD; Sergio Bustamante, MD*

**(TAS34) From Aorta to Spine—The Complicated Road to Paralysis**

*Jayme Looper, MD; Edward McGough, MD*

**(TAS35) Tension Pneumothorax in Contralateral Native Lung Following Single-Lung Transplant**

*Daniel Gross, MD; Sujatha Ramachandran, MD*

**(TAS36) Anesthetic Considerations for Pulmonary Alveolar Proteinosis**

*Tristan Freiling, DO; Mark Chaney, MD*

# Poster Presentations

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**(TAS37) Anesthetic Considerations for Biopsy of a Large Mediastinal Mass**

*Candy Ezimora, MD; Lavinia Kolarczyk, MD; Gita Mody, MD; Jason Long, MD*

**(TAS38) Venoarterial Extracorporeal Membrane Oxygenation: A Unique Solution to a Massive Problem**

*Patricia Narciso, DO; Ashley Fritz, DO; Archer Martin, MD*

**(TAS39) Withdrawn**

**(TAS40) Audit of Perioperative Anemia in Patients Undergoing Video-Assisted Thoracoscopic Surgery and Open Thoracotomy, at Nottingham City Hospital, United Kingdom**

*William Tomlinson, BMBS; Pamela Wake, BMed Sci; Rik Kapila, MBChB*

**(TAS41) Aberrant Subclavian Aneurysm Repair Followed by Heparin-Induced Thrombocytopenia and Its Complications Including Tracheo-Esophageal-Subclavian-Stump Fistula**

*Jason Broker, MD; Natalia Skachkova, MD*

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## Non-CME Corporate Satellite Symposia

The material presented in these symposia is not affiliated with the continuing education content of this meeting.

**Friday, May 17 | Noon–1 pm**

**Regency Ballroom BC**

### **A New Era for Thoracic Regional Anesthesia: Looking Beyond Epidurals**

*Loran Mounir Soliman, MD*

*Director Regional Anesthesia Fellowship Institute of Anesthesia Comprehensive Pain Management  
Cleveland Clinic, Cleveland, OH*

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# SCA 2020

## THORACIC ANESTHESIA SYMPOSIUM



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