Program at a Glance

SCA 5th Annual Thoracic Anesthesia Symposium

April 1–2, 2016
Manchester Grand Hyatt San Diego
San Diego, CA
www.scahq.org/2016AnnualMeeting

SSID (Network Name): SCA2016
Password: SANDIEGO
General Information

Target Audience
Academic and private practice anesthesiologists, residents, and fellows providing care for thoracic surgery in a teaching or community-based hospital setting

Statement of Need
There have been many advances in medicine, anesthesia, and our understanding of pathophysiology, medications, and new technology, all of which have advanced noncardiac thoracic surgery. These advances include, but are not limited to, our understanding of the function of the glycocalyx and how our perioperative fluid and ventilator management alter its function and impact patient outcomes, and pulmonary vascular pathophysiology and our armamentarium to manage it during one lung ventilation. Discussions with attendees at recent anesthesia meetings and a survey of course evaluations have identified these areas as professional practice gaps. This continuing education program is designed to address knowledge and performance deficiencies in these areas.

Although thoracic anesthesia is not a separate subspecialty, it commonly is included within the subspecialty of cardiovascular anesthesia. However, many clinicians who provide anesthesia for thoracic surgery do not provide cardiac anesthesia and a large portion of thoracic surgery is performed in hospitals that do not perform cardiac surgery. There has been no adequate forum at national specialty or subspecialty anesthesia meetings to allow these practitioners to keep pace with advances in thoracic anesthesia. This program is designed to be an update and review of thoracic anesthesia for anesthesiologists who practice cardiac anesthesia, as well as those who do not.

Goal
To improve the perioperative care and outcome for patients having noncardiac thoracic surgery

Objectives
This course will have a limited registration and will attempt to maximize interaction between attendees and faculty with the use of panels, case discussions, workshops, problem-based learning discussions (PBLDs), and debates. After attending this course the attendee should be able to

• develop an evidence-based plan for perioperative fluid management of patients undergoing thoracic surgery
• focus on advances in the pathophysiology of pulmonary hypertension with a focus on management and outcome
• review recent advances in care of the patient with coronary disease undergoing pulmonary resection
• stratify management options for patients who develop hypoxemia during one-lung ventilation
• examine the national initiatives on quality improvement and how they apply to thoracic surgery
• review the data on enhanced recovery programs for thoracic surgery
• provide a variety of options for ventilation for patients with difficult airways during airway surgery
• improve ability to provide safe and reliable lung isolation with double-lumen tubes and bronchial blockers in patients with difficult airways
• develop practical knowledge in the use of lung ultrasound.
CME Accreditation
The Society of Cardiovascular Anesthesiologists is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education (CME) for physicians.

Designation
The Society of Cardiovascular Anesthesiologists designates this live activity for a maximum of 8.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Disclaimer
The material presented in this activity represents the opinion of the speakers and not necessarily the views of the Society of Cardiovascular Anesthesiologists.

Claim Your CME
To claim CME credit, visit www.scahq.org/2016annualmeeting to complete your 2016 Thoracic Anesthesia Symposium evaluations. You must complete the evaluations to claim your CME credit.

Photography
Please be advised that throughout the Thoracic Anesthesia Symposium, 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 the SCA staff in writing at info@scahq.org.

Syllabus and Learning Objectives
Session syllabi and learning objectives are provided to attendees through electronic media only. Visit the handouts website at www.scahq.org/2016annualmeeting to access the meeting handouts.

Your Mobile Meeting
Use your mobile device to access information about the Thoracic Anesthesia Symposium. Search the app store for “SCA” and download the 2016 meeting mobile app to create a personalized meeting experience at your fingertips.

JOIN THE CONVERSATION
Follow @scahq on Twitter or like the Society of Cardiovascular Anesthesiologists Facebook page for up-to-date information and updates on the meeting.
POSTOPERATIVE DELIRIUM

WHAT CAN WE DO?

Did you know that the depth — as well as the type — of anesthesia are risk factors for postoperative delirium?1,2 In fact, postoperative delirium affects 37% to 46% of all surgical patients3 and is the leading complication to adverse outcomes.4

THE GOOD NEWS:
IT’S POSSIBLE TO REDUCE THE LIKELIHOOD OF DELIRIUM OCCURRENCES

In a recent study discussed at the 2015 ASA annual meeting that monitored brain oxygenation and sedation levels, researchers used Bispectral Index™ (BIS™) monitoring to track depth of anesthesia in elderly patients during cardiac surgery. These patients experienced “a significant reduction in the incidence of postoperative delirium and associated cognitive decline”.5

GET MORE INSIGHT.
VISIT US AT BOOTH #7


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Faculty

Disclosures of Relevant Financial Relationships: Thoracic Anesthesia Symposium attendees are urged to review general CME information for the conference, including disclosures of relevant financial relationships for all persons who have affected the content of CME, by downloading and reading this information, available at www.scahq.org/2016annualmeeting.

Diana Anca, MD
Assistant Professor of Anesthesiology
Mount Sinai St. Luke’s
New York, NY

Randal S. Blank, MD PhD
Associate Professor of Anesthesiology
University of Virginia
Charlottesville, VA

Brandi A. Bottiger, MD
Assistant Professor
Duke University Medical Center
Durham, NC

Jean S. Bussieres, MD
Associate Professor
Institut Universitaire De Cardiologie Et De Pneumologie de Quebec
Quebec City, QC Canada

Javier H. Campos, MD
Professor and Director of Cardiothoracic Anesthesiology
University of Iowa Health Care
Iowa City, IA

R. Lebron Cooper, MD
Professor and Chair
University of Tennessee Health Science Center
Memphis, TN

Tobias Eickle, MD PhD
Associate Professor
University of Colorado Denver
Aurora, CO

Richard E. Galgon, MD MS
Assistant Professor
University of Wisconsin
Madison, WI

Donna L. Greenhalgh, MD MBChB FRCA FFICM
Consultant in Intensive Care and Cardiothoracic Anaesthesia
University Hospital of South Manchester
Stockport, Cheshire United Kingdom

Katherine P. Grichnik, MD FASE
Vice President, Quality and Safety
Mednax National Medical Group
Sunrise, FL

Jacob Gutsche, MD
Assistant Professor
Perelman School of Medicine, University of Pennsylvania
Philadelphia, PA

Philip M. Hartigan, MD
Director of Thoracic Anesthesia
Brigham and Women's Hospital
Assistant Professor of Anesthesiology
Harvard Medical School
Boston, MA

Paul M. Heerdt, MD PhD FCCP
Professor, Department of Anesthesiology
Yale University
New Haven, CT

Timothy A. Jackson, MD
University of Texas MD Anderson Cancer Center
Houston, TX

George Kanellakos, MD
Assistant Professor of Anaesthesia
Dalhousie University
Halifax, NS Canada

Rebecca Y. Klinger, MD MS
Assistant Professor
Duke University Medical Center
Durham, NC

Jens Lohser, MD MSc FRCPC
Associate Professor
University of British Columbia
Vancouver, BC Canada

Jennifer A. Macpherson, MD
Assistant Professor of Anesthesiology
University of Rochester, Strong Memorial Hospital
Rochester, NY

Leonardo A. Martinez, MD
Assistant Professor of Anesthesiology and Pediatrics
University of Virginia
Charlottesville, VA

Massimiliano Meineri, MD
Associate Professor of Anesthesia
University of Toronto
Toronto, ON Canada

Ju-Mei Ng, MD
Assistant Professor
Harvard Medical School
Boston, MA

Gian Paparcuri, MD
Assistant Professor
University of Miami, Miller School of Medicine
Miami, FL

Alessia Pedoto, MD
Associate Attending Anesthesiologist
Memorial Sloan Kettering Cancer Center
New York, NY

Wanda M. Popescu, MD
Associate Professor
Yale University School of Medicine
New Haven, CT

Ron V. Purugganan, MD
University of Texas MD Anderson Cancer Center
Houston, TX

Ferenc Puskas, MD PhD
Associate Professor of Anesthesiology
University of Colorado Denver
Aurora, CO

Andrew Roscoe, FRCA
Consultant in Anaesthesia and ICU
Papworth Hospital
Cambridge, United Kingdom

Alan F. Ross, MD
Associate Professor
University of Iowa
Iowa City, IA

Joshua J. Sebranek, MD
Assistant Professor
University of Wisconsin School of Medicine and Public Health
Madison, WI

Andrew D. Shaw, MB FRCA FFICM
Professor and Executive Vice Chair
Vanderbilt University Medical Center
Nashville, TN

Jagtar S. Singh Heir, DO
Assistant Professor of Anesthesiology and Perioperative Medicine
University of Texas MD Anderson Cancer Center
Houston, TX

Peter D. Slinger, MD FRCP
Professor of Anesthesia
University of Toronto
Toronto, ON Canada

Andrew C. Steel, MBBS MRCP FRCA FRCPC FFICM
Assistant Professor of Anesthesia
University of Toronto
Toronto, ON

Sudhakar Subramani, MD MMED
Clinical Assistant Professor
University of Iowa Hospitals and Clinics
Iowa City, IA

Jeffrey Swanson, MD
Instructor of Anesthesia
Harvard Medical School
Department of Anesthesiology
Perioperative and Pain Medicine
Brigham and Women’s Hospital
Boston, MA

Kenichi Ueda, MD
Clinical Associate Professor
University of Iowa
Iowa City, IA
The Heart Center at Huntsville Hospital has an Opening for a CV Anesthesiologist!

The practice was founded in 1979 and has since grown into a practice with 40 Cardiologists, 5 Cardiothoracic Surgeons and 3 Cardiac Anesthesiologists. All of our physicians are Board. We do about 750 open heart procedures/yr, about 500 thoracic cases/yr and staff a busy cath/ep lab. TEE skills are mandatory, TEE certification and proficiency with coronary sinus catheter placement preferable. Call is 1 out of 3. New physicians can enjoy several amenities including an excellent starting salary and comprehensive benefits package.

In addition, the group is employed by Heart Center, Inc which is owned by Huntsville Hospital, one of the largest non-profit health care systems in the nation (with 881 beds), serving all of North Alabama and Southern Tennessee. The hospital has a 5 star rating for cardiac surgery from Healthgrades and recognition for the “Get with the Guidelines” program from the American Heart Association.

Huntsville is situated in the fastest growing major metropolitan area in Alabama, and with the highest per capita income in the southeast. With a population of 386,661 in the metro area, we are a high-tech, family oriented, multi cultural community with excellent schools, dining and entertainment. Huntsville is nestled at the foothills of the Appalachian Mountains with an abundance of activities to do inside or out.

• Alabama’s Only Top 50 Heart Hospital by Truven Health Analytics
• America’s 50 Best Cardiac Surgery Programs by Healthgrades
• Top 50 Cardiovascular Programs by Truven Health Analytics
• Cardiac Care Excellence Award by Healthgrades

For more information, please call Kimberly Salvail at 256-265-7073 or email: kimberly.salvail@hhsys.org
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<tr>
<th>Time</th>
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<tr>
<td>7–7:50 am</td>
<td><strong>BREAKFAST WITH EXHIBITORS AND POSTER SETUP</strong></td>
<td>Grand Hall B</td>
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<td>7:50–8 am</td>
<td><strong>OPENING REMARKS, MEETING ORIENTATION</strong></td>
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| 8–9 am       | **PANEL 1: FLUID MANAGEMENT AND THORACIC SURGERY**  
Moderator: R. Lebron Cooper, MD  
**Deficit, Vascular Tone, and Fluid Responsiveness**  
Andrew D. Shaw, MB FRCA FCCM  
**Glycocalyx Interface Between Research and Clinical Care**  
Jens Lohser, MD MSc FRCPC  
**Dynamic Monitoring and Open Chest: Does It Matter?**  
Randal S. Blank, MD PhD | Grand Hall C |
| 9–10 am      | **SESSION 1: CARDIAC DISEASE AND PULMONARY HYPERTENSION**  
Moderator: Wanda M. Popescu, MD  
**Update on Perioperative Management of Pulmonary Hypertension**  
Paul M. Heerdt, MD PhD FCCP  
**Patient with Severe Pulmonary Hypertension for Non-Cardiothoracic Surgery: What’s Necessary?**  
Peter D. Slinger, MD FRCPC  
**Cardiac Stents and Pulmonary Resection: Should We Worry?**  
Wanda M. Popescu, MD | Grand Hall C |
| 10–10:15 am  | **COFFEE BREAK WITH EXHIBITORS**                                                                                                        | Grand Hall B |
| 10:15–11 am  | **WORKSHOPS 1–4** (see page 9)                                                                                                          |           |
| 11–11:45 am  | **WORKSHOPS 1–4** (see page 9)                                                                                                          |           |
| 11:45 am–12:15 pm | **TOP ABSTRACTS AND DIFFICULT CASES**  
Moderators: Alessia Pedoto, MD; Wanda M. Popescu, MD | Grand Hall C |
| 12:15–1:15 pm| **LUNCH WITH EXHIBITORS**                                                                                                               | Grand Hall B |
| 1:15–2 pm    | **POSTER SESSION**  
Moderator: Alessia Pedoto, MD                                                                                                         | Grand Hall B |
| 2–3 pm       | **PANEL 2: UPDATE ON ONE-LUNG VENTILATION AND HYPOXEMIA**  
Moderator: Ferenc Puskas, MD PhD  
**Cellular Effects of Hypoxemia (Research Update)**  
Tobias Eckle, MD  
**Management of Hypoxemia: How Low Is Too Low?**  
Ferenc Puskas, MD PhD  
**Old Tricks and New Tips**  
Javier H. Campos, MD | Grand Hall C |
| 3–4 pm       | **SESSION 2: IMPROVING CARE QUALITY AND ECONOMICS OF THORACIC SURGERY**  
Moderator: Randal S. Blank, MD PhD  
**Enhanced Recovery After Thoracic Surgery: The European Experience**  
Donna L. Greenhalgh, MD MBChB FRCA FFICM  
**Preoperative Surgical Home and Pulmonary Prehabilitation: The Future of Thoracic Anesthesiology?**  
Randal S. Blank, MD PhD  
**What Does Really Matter in Quality? A National Perspective**  
Katherine Grichnik, MD FASE | Grand Hall C |
| 4–4:15 pm    | **COFFEE BREAK WITH EXHIBITORS**                                                                                                        | Grand Hall B |
| 4:15–5 pm    | **WORKSHOPS 1–4** (see page 9)                                                                                                          |           |
| 5–5:45 pm    | **WORKSHOPS 1–4** (see page 9)                                                                                                          |           |
| 5:45–6:30 pm | **THORACIC JEOPARDY!**  
Peter D. Slinger, MD FRCPC                                                                                                               | Grand Hall C |
| 6:30–7:30 pm | **RECEPTION WITH EXHIBITORS**                                                                                                          | Grand Hall B |
# Problem-Based Learning Discussions (PBLDs)

Coordinator: Philip M. Hartigan, MD

## 6:20–7:05 am

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<th>ROBOTIC THORACIC SURGERY</th>
<th>Javier H. Campos, MD; Jeffrey Swanson, MD</th>
<th>Cortez Hill A</th>
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<tr>
<td>PBLD 2A</td>
<td>NEONATAL MEDIASTINAL MASS</td>
<td>Randal S. Blank, MD PhD; Leonardo A. Martinez, MD</td>
<td>Cortez Hill B</td>
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<td>PBLD 3A</td>
<td>ESOPHAGECTOMY</td>
<td>Jens Lohser, MD MSc FRCP; Jagtar Singh Heir, DO</td>
<td>Cortez Hill C</td>
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<td>PBLD 4A</td>
<td>OPTIMAL PAIN MANAGEMENT</td>
<td>R. Lebron Cooper, MD; Alessia Pedoto, MD</td>
<td>Hillcrest A</td>
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<td>PBLD 5A</td>
<td>LUNG TRANSPLANTATION</td>
<td>Rebecca Klinger, MD MSc FRCP; Peter D. Slinger, MD FRCP</td>
<td>Hillcrest B</td>
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<td>PBLD 6A</td>
<td>PATIENT WITH CARDIAC DISEASE UNDERGOING THORACIC SURGERY</td>
<td>Diana Anca, MD; Wanda M. Popescu, MD</td>
<td>Hillcrest C</td>
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<td>PBLD 7A</td>
<td>ECMO FOR LUNG RESCUE</td>
<td>Jacob Gutsche, MD; Andrew Roscoe, FRCA</td>
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<td>PBLD 8A</td>
<td>PATIENT WITH OBSTRUCTIVE DISTAL TRACHEAL MASS</td>
<td>Philip M. Hartigan, MD; Ju-Mei Ng, MD</td>
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## 7:10–7:55 am

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<th>PBLD 1B</th>
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## Workshops

Please visit the registration desk with any questions about your workshop assignments.

Workshop Coordinator: Javier H. Campos, MD

1. **LUNG ISOLATION IN PATIENTS WITH DIFFICULT AIRWAY (BRONCHIAL BLOCKER AND DOUBLE-LUMEN TUBE STATION)**
   - Hillcrest AB
   - Moderator: Kenichi Ueda, MD
   - Presenters: Jean S. Bussieres, MD; Lebron Cooper, MD; Jennifer Macpherson, MD; Ron Purugganan, MD; Kenichi Ueda, MD

2. **PARAVERTEBRAL BLOCKS**
   - Cortez Hill
   - Moderator: Brandi A. Bottiger, MD
   - Presenters: George Kanellakos, MD; Gian Paparcuri, MD

3. **LUNG ULTRASOUND**
   - Hillcrest CD
   - Moderator: Massimiliano Meineri, MD
   - Presenters: Alan Ross, MD; Andrew Steel, MBBS MRCP FRCA FRCPC FFICMEDIC

4. **ANESTHESIA FOR AIRWAY SURGERY**
   - Torrey Hills
   - Moderators: Joshua Sebranek, MD; Jagtar Singh Heir, DO
   - Presenters: Richard Galgon, MD MS; Joshua Sebranek, MD; Jagtar Singh Heir, DO; Sudhakar Subramani, MD MMED
Top Abstracts and Difficult Cases

11:45–11:55 AM GRAND HALL C
(TAS1) Anterior Mediastinal Mass Causing Cardiac and Airway Compression: Anesthetic Considerations
Michael Evans, MD; Igor Zhukov, MD; Emory University School of Medicine

11:55 AM–12:05 PM GRAND HALL C
(TAS2) Veno-Venous Extracorporeal Membrane Oxygenation as an Alternative to Positive Pressure Ventilation for the Management of Tracheoesophageal Fistulae
Eric Chanowski, MD; Huong Le, MD; Tiago Machuca, MD PhD; Brian Gelfand, MD FACS; University of Florida

12:05–12:15 PM GRAND HALL C
(TAS3) Pre-Induction Thoracic Epidural for Lung Transplantation: A Cohort Study
Sean McLean, MD; Peter von Homeyer, MD FASE; Bala Nair, PhD; Shu-Fang Newman, MS; Michael Mulligan, MD; Kei Togashi, MD; Vancouver General Hospital; University of Washington

Poster Session
1:15–2 PM GRAND HALL B
(TAS4) Difficult Lung Isolation in Patient with Laryngeal Stenosis Requiring Multidisciplinary Approach with Balloon Laryngoplasty
Meredith Whitacre, MD; Albert Robinson, MD; Huong Thi Le, MD; University of Florida

(TAS5) Open Sleeve Resection for Endobronchial Carcinoid in a Jehovah’s Witness Patient
Bradford Berndt, MD; Kevin Collins, BSN CCP LP; Courtney Thurman, BS CCP LP; Matthew Hartwig, MD; Rebecca Klinger, MD; Duke University Health System

(TAS6) Pulmonary Artery Hemorrhage During VATS Lobectomy
Kelly Kohorst; Brian O’Hara, MD; Antonio Hernandez, MD; Vanderbilt

(TAS7) A Challenging Case of Ipsilateral Tension Pneumothorax During Open Thoracotomy in a Patient with a Suspicious Lung Nodule and Pulmonary Manifestations of SJögren Syndrome
Tameka Noel, MD; Michelle Capdeville, MD; The Cleveland Clinic

(TAS8) Simulation Using 3D-Printed Models to Improve Resident Education in Thoracic Anesthesia
Shravan Cheruku, MD; Sergio Bustamente, MD; The Cleveland Clinic; The Cleveland Clinic Foundation

(TAS9) Idiopathic Hyperammonemia After Orthotopic Lung Transplantation: A Case Study
Angelie Nguyen, MD; Jessica Reardon, DO; Temple University

(TAS10) Lung Transplantation in Two Patients with Severe Pulmonary Hypertension: A Tale of Two Outcomes and Suggestions for Safe Practice
Travis Schisler, MD FRCPC; Kathirvel Subramaniam, MD MPH; Jose Marquez, MD; University of Pittsburgh Medical Center

(TAS11) Extracorporeal Membrane Oxygenation for Lung Rest from Complications After Double Lung Transplant: A Case Report
Daniel Eskinazi, DO; Kathleen Tyson, MD; Temple University Health System

(TAS12) Diaphragmatic Hernia Repair in a Patient with Osteogenesis Imperfecta
Kristine Pearson-Chauhan, DO; Arvind Rajagopal, MD; Rush University Medical Center

(TAS13) Combined Ratchit Procedure and Mitral Valve Repair in a Patient with Marfan Syndrome
Camille Rice, DO; Pablo Motta, MD; Texas Heart Institute at CHI St. Lukes Health–Baylor St. Luke’s Medical Center; Baylor College of Medicine

(TAS14) Management of a Jehovah’s Witness Status Post-Fontan Palliation, Presenting with a Pheochromocytoma
Natalia Diaz-Rodriguez, MD; Jochen Steppan, MD DESA; Krishnan Chakravarty, MD PhD; The Johns Hopkins Medical Institutions

(TAS15) Acute Spinal Subarachnoid Hematoma After Placement of a Lumbar Spinal Drain
Keith Thompson

(TAS16) Anesthesia for Institutional First-Time Suction Thrombectomy Using Veno-Venous for Neurosurgical Patient in an Offsite Location
Aisan Raisdana; University of Illinois Hospital & Health Sciences System

(TAS17) Not All Anterior Mediastinal Masses Are Created Equal: Challenges with Intraoperative Airway Management
Sanjeev Chhangani, MB; University of Florida School of Medicine
(TAS37) Interaoperative Synthetic Colloids Increase Postoperative Delirium in Patients Undergoing Esophageal Cancer Surgery
Hyun Joo Ahn, MD PhD; Dae Myung Jung; Jin Hee Ahn; Samsung Medical Center, Sungkyunkwan University

(TAS38) Neutrophil-Lymphocyte Ratio and Risk of Atrial Fibrillation After Thoracic Surgery
Kevin Walsh, MD; Memorial Sloan Kettering Cancer Center

(TAS39) Systematic Transesophageal Sonography of Thoracic and Cervical Spinal Canal
Luiz Maracaja Neto, MD; McCord Tucker, DO; Maxim Eckmann, MD; University Health Sciences Center, San Antonio

(TAS40) Low-Cost 3D-Printed Thoracic Spine Models for Thoracic Epidural Insertion Training
Joshua Qua Hiansen, MSc; Azad Mashari, MD FRCPC; Matt Ratto, PhD; Massimiliano Meineri, MD; Toronto General Hospital; University of Toronto

(TAS41) 3D Printing a Variable-Difficulty, Multi-Model Bronchoscopy Training System
Azad Mashari, MD FRCPC; Joshua Qua Hiansen, MSc; Matt Ratto, PhD; Massimiliano Meineri, MD; Toronto General Hospital; University of Toronto

(TAS42) Comparison of Supraglottic Airway Device and Spontaneous Ventilation vs. Double-Lumen Endotracheal Tube and Positive Pressure Ventilation for Minor Thorascopic Surgery: A Propensity-Matched Cohort Study
Lachlan Miles, MBBS (Hons) FANZCA; Kaustuv Joshi, BA (Hons); Guillermo Martinez, MD; Andrew Klein, MBBS FRCA FFICM; Joanne Irons, MBChB MRCP FRCA PG DipCU; Papworth Hospital NHS Foundation Trust; University of Cambridge

(TAS43) Quality Improvement in Perioperative Pain Management: A Retrospective Review of Current Practice
Shaconda Junious, MD; Rebecca Klinger, MD; Austin Traylor, Database Analyst; Ishwori Dhakal, MS; Betty Tong, MD MHS MS; Brandi Bottiger, MD; Duke University

(TAS44) Withdrawn

(TAS45) Ultrasound Guided Pectoral Nerve Block (PEC 1 and 2) for Pain Management of Traumatic and Surgical Thoracic Injuries in Patients with Contraindications to Neuraxial Analgesia
Vikas Kumar, MD; Mohamed Gaber, MD; Fletcher Moore, MD; Manuel Castresana, MD; Augusta University

(TAS46) Retractor Redesign to Enable Continuous Force Measurements Throughout Mid-Sternal Retractions in Cadavers: Implications for Chronic Post-Sternotomy Pain
Tarit Saha, MBBS FRCP; Dimitri Petsikas, MD; Queen’s University

(TAS47) Intercostal Nerve Block with Liposomal Bupivacaine: A Case Series
Lorenzo De Marchi, MD; Karen Halsted, MD; Katherine Rogan, BS; Jessica Ibanez, Medical Student; Salvatore Parascandola, BS; Brian Freeman; Hiep Dao, MD; Marc Margolis; Margaret Marshall, MD; MedStar Georgetown University Hospital; Georgetown University School of Medicine
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