



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

WIRELESS CONNECTION

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.

Course Co-Directors

E. Andrew Ochroch, MD MSCE
Ferenc Puskas, MD PhD

Program Committee

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Javier H. Campos, MD
R. Lebron Cooper, MD
Philip M. Hartigan, MD
Paul M. Heerdt, MD PhD FCCP

Jens Lohser, MD MSc FRCP
Alessia Pedoto, MD
Wanda M. Popescu, MD
Jagtar S. Singh Heir, DO
Peter D. Slinger, MD FRCP

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

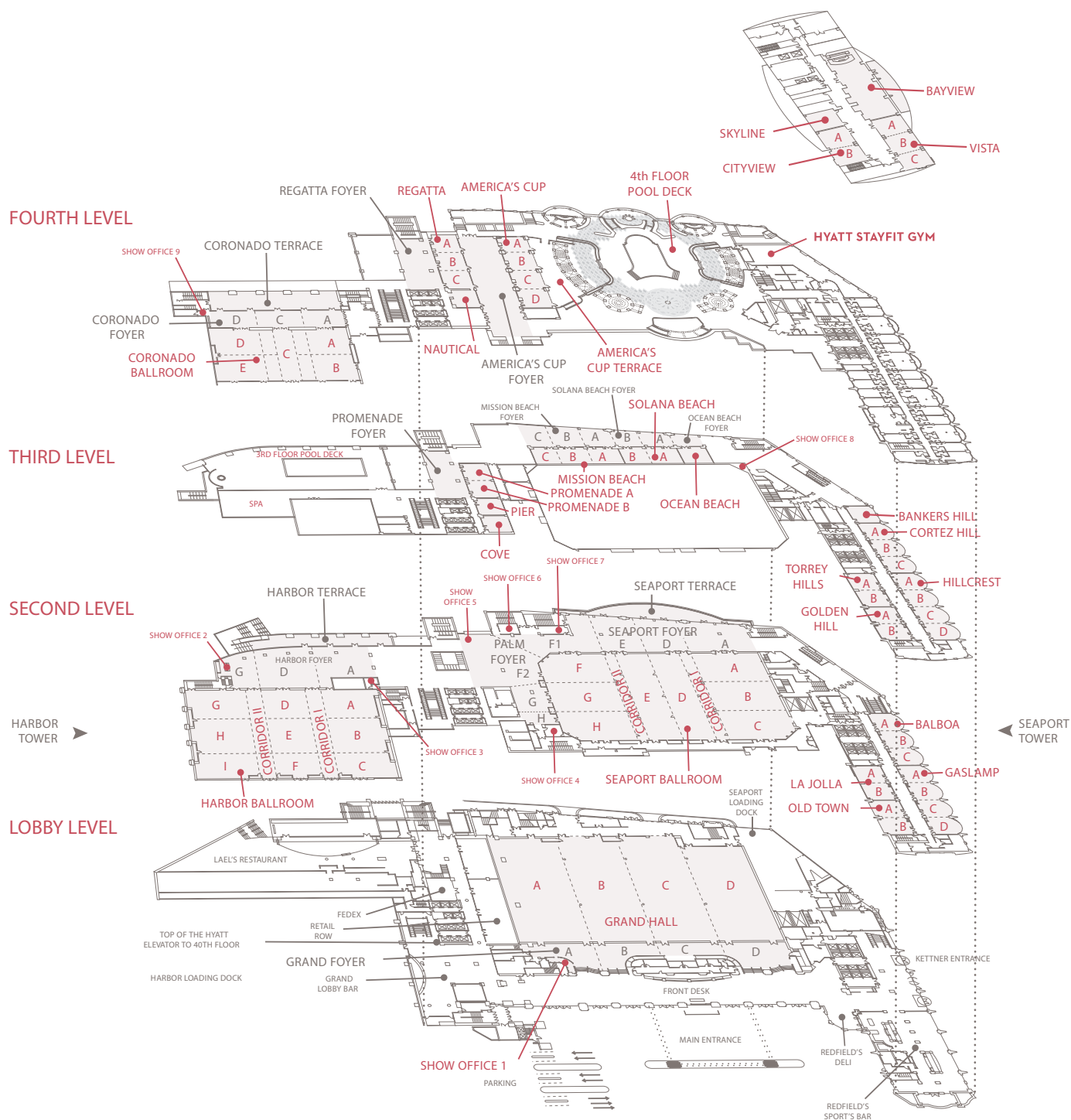


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Manchester Grand Hyatt San Diego Floor Plans

32nd Floor



POSTOPERATIVE DELIRIUM **WHAT CAN WE DO?**

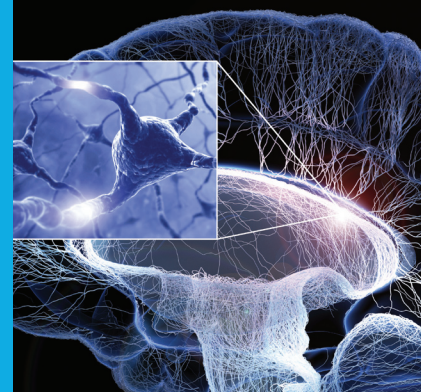


Did you know that the depth — as well as the type — of anesthesia are risk factors for postoperative delirium?^{1,2} In fact, postoperative delirium affects 37% to 46% of all surgical patients³ and is the leading complication to adverse outcomes.⁴

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



1. Sieber FE, Zakriya KJ, Gottschalk A, Blute MR, Lee HB, Rosenberg PB, Mears SC. Sedation depth during spinal anesthesia and the development of postoperative delirium in elderly patients undergoing hip fracture repair. *Mayo Clin Proc.* 2010; 85(1):18-26. 2. Rudolph J, Marcantonio E. Postoperative Delirium: Acute change with long-term implications. *Anesth Anal.* 2011; 112(5): 1202-1211. 3. Whitlock E, Vannucci A, Avidan M. Postoperative Delirium. *Minerva Anesthesiol.* 2011 April; 77(4): 448-456. 4. Gleason LJ, Schmitt EM, Kosar CM, Tabloski P, Saczynski JS, et al. Effect of Delirium and Other Major Complications on Outcomes After Elective Surgery in Older Adults. *JAMA Surg.* 2015 Sep 9:1-7. 5. Monitoring anesthesia, oxygenation levels reduces postop delirium in older cardiac patients. *American Society of Anesthesiologists website.* Published October 27, 2015. <http://www.asahq.org/about-asahq/newsroom/news-releases/2015/10/monitoring-oxygenation-reduces-delirium>.

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SCA 39th

Annual Meeting
& Workshops

APRIL 22-26, 2017

Loews Royal Pacific
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6th Annual Thoracic
Anesthesia Symposium
April 21-22, 2017



Heart Center, Inc.
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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.

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- Cardiac Care Excellence Award by Healthgrades

For more information, please call Kimberly Salvail at 256-265-7073 or email:
kimberly.salvail@hhsys.org

Alabama's ONLY TOP 50
Heart Hospital



Schedule

7–7:50 am	BREAKFAST WITH EXHIBITORS AND POSTER SETUP	Grand Hall B
7:50–8 am	OPENING REMARKS, MEETING ORIENTATION	Grand Hall C
8–9 am	PANEL 1: FLUID MANAGEMENT AND THORACIC SURGERY <i>Moderator: R. Lebron Cooper, MD</i> Deficit, Vascular Tone, and Fluid Responsiveness <i>Andrew D. Shaw, MB FRCA FCCM</i> Glycocalyx Interface Between Research and Clinical Care <i>Jens Lohser, MD MSc FRCPC</i> Dynamic Monitoring and Open Chest: Does It Matter? <i>Randal S. Blank, MD PhD</i>	Grand Hall C
9–10 am	SESSION 1: CARDIAC DISEASE AND PULMONARY HYPERTENSION <i>Moderator: Wanda M. Popescu, MD</i> Update on Perioperative Management of Pulmonary Hypertension <i>Paul M. Heerdt, MD PhD FCCP</i> Patient with Severe Pulmonary Hypertension for Non-Cardiothoracic Surgery: What's Necessary? <i>Peter D. Slinger, MD FRCPC</i> Cardiac Stents and Pulmonary Resection: Should We Worry? <i>Wanda M. Popescu, MD</i>	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 <i>Moderators: Alessia Pedoto, MD; Wanda M. Popescu, MD</i>	Grand Hall C
12:15–1:15 pm	LUNCH WITH EXHIBITORS	Grand Hall B
1:15–2 pm	POSTER SESSION <i>Moderator: Alessia Pedoto, MD</i>	Grand Hall B
2–3 pm	PANEL 2: UPDATE ON ONE-LUNG VENTILATION AND HYPOXEMIA <i>Moderator: Ferenc Puskas, MD PhD</i> Cellular Effects of Hypoxemia (Research Update) <i>Tobias Eckle, MD</i> Management of Hypoxemia: How Low Is Too Low? <i>Ferenc Puskas, MD PhD</i> Old Tricks and New Tips <i>Javier H. Campos, MD</i>	Grand Hall C
3–4 pm	SESSION 2: IMPROVING CARE QUALITY AND ECONOMICS OF THORACIC SURGERY <i>Moderator: Randal S. Blank, MD PhD</i> Enhanced Recovery After Thoracic Surgery: The European Experience <i>Donna L. Greenhalgh, MD MBChB FRCA FFICM</i> Preoperative Surgical Home and Pulmonary Prehabilitation: The Future of Thoracic Anesthesiology? <i>Randal S. Blank, MD PhD</i> What Does Really Matter in Quality? A National Perspective <i>Katherine Grichnik, MD FASE</i>	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! <i>Peter D. Slinger, MD FRCPC</i>	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

PBLD 1A	ROBOTIC THORACIC SURGERY	Javier H. Campos, MD; Jeffrey Swanson, MD	Cortez Hill A
PBLD 2A	NEONATAL MEDIASTINAL MASS	Randal S. Blank, MD PhD; Leonardo A. Martinez, MD	Cortez Hill B
PBLD 3A	ESOPHAGECTOMY	Jens Lohser, MD MSc FRCPC; Jagtar Singh Heir, DO	Cortez Hill C
PBLD 4A	OPTIMAL PAIN MANAGEMENT	R. Lebron Cooper, MD; Alessia Pedoto, MD	Hillcrest A
PBLD 5A	LUNG TRANSPLANTATION	Rebecca Klinger, MD MSc FRCPC; Peter D. Slinger, MD FRCPC	Hillcrest B
PBLD 6A	PATIENT WITH CARDIAC DISEASE UNDERGOING THORACIC SURGERY	Diana Anca, MD; Wanda M. Popescu, MD	Hillcrest C
PBLD 7A	ECMO FOR LUNG RESCUE	Jacob Gutsche, MD; Andrew Roscoe, FRCA	Hillcrest D
PBLD 8A	PATIENT WITH OBSTRUCTIVE DISTAL TRACHEAL MASS	Philip M. Hartigan, MD; Ju-Mei Ng, MD	Golden Hill A

7:10–7:55 am

PBLD 1B	ROBOTIC THORACIC SURGERY	Javier H. Campos, MD; Jeffrey Swanson, MD	Cortez Hill A
PBLD 2B	NEONATAL MEDIASTINAL MASS	Randal S. Blank, MD PhD; Leonardo A. Martinez, MD	Cortez Hill B
PBLD 3B	ESOPHAGECTOMY	Jens Lohser, MD MSc FRCPC; Jagtar Singh Heir, DO	Cortez Hill C
PBLD 4B	OPTIMAL PAIN MANAGEMENT	R. Lebron Cooper, MD; Alessia Pedoto, MD	Hillcrest A
PBLD 5B	LUNG TRANSPLANTATION	Rebecca Klinger, MD MSc FRCPC; Peter D. Slinger, MD FRCPC	Hillcrest B
PBLD 6B	PATIENT WITH CARDIAC DISEASE UNDERGOING THORACIC SURGERY	Diana Anca, MD; Wanda M. Popescu, MD	Hillcrest C
PBLD 7B	ECMO FOR LUNG RESCUE	Jacob Gutsche, MD; Andrew Roscoe, FRCA	Hillcrest D
PBLD 8B	PATIENT WITH OBSTRUCTIVE DISTAL TRACHEAL MASS	Philip M. Hartigan, MD; Ju-Mei Ng, MD	Golden Hill A

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, MD¹; Igor Zhukov, MD¹; Emory University School of Medicine¹

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, MD¹; Huong Le, MD¹; Tiago Machuca, MD PhD¹; Brian Gelfand, MD FACS¹; University of Florida¹

12:05–12:15 PM

GRAND HALL C

(TAS3) Pre-Induction Thoracic Epidural for Lung Transplantation: A Cohort Study

Sean McLean, MD¹; Peter von Homeyer, MD FASE²; Bala Nair, PhD²; Shu-Fang Newman, MS²; Michael Mulligan, MD²; Kei Togashi, MD²; Vancouver General Hospital¹; University of Washington²

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, MD¹; Albert Robinson, MD¹; Huong Thi Le, MD¹; University of Florida¹

(TAS5) Open Sleeve Resection for Endobronchial Carcinoid in a Jehovah's Witness Patient

Bradford Berndt, MD¹; Kevin Collins, BSN CCP LP¹; Courtney Thurman, BS CCP LP¹; Matthew Hartwig, MD¹; Rebecca Klinger, MD¹; Duke University Health System¹

(TAS6) Pulmonary Artery Hemorrhage During VATS Lobectomy

Kelly Kohorst¹; Brian O'Hara, MD¹; Antonio Hernandez, MD¹; Vanderbilt¹

(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, MD¹; Michelle Capdeville, MD¹; The Cleveland Clinic¹

(TAS8) Simulation Using 3D-Printed Models to Improve Resident Education in Thoracic Anesthesia

Shravan Cheruku, MD¹; Sergio Bustamante, MD²; The Cleveland Clinic¹; The Cleveland Clinic Foundation²

(TAS9) Idiopathic Hyperammonemia After Orthotopic Lung Transplantation: A Case Study

Angeline Nguyen, MD¹; Jessica Reardon, DO¹; Temple University¹

(TAS10) Lung Transplantation in Two Patients with Severe Pulmonary Hypertension: A Tale of Two Outcomes and Suggestions for Safe Practice

Travis Schisler, MD FRCPC¹; Kathirvel Subramaniam, MD MPH¹; Jose Marquez, MD¹; University of Pittsburgh Medical Center¹

(TAS11) Extracorporeal Membrane Oxygenation for Lung Rest from Complications After Double Lung Transplant: A Case Report

Daniel Eskinazi, DO¹; Kathleen Tyson, MD¹; Temple University Health System¹

(TAS12) Diaphragmatic Hernia Repair in a Patient with Osteogenesis Imperfecta

Kristine Pearson-Chauhan, DO¹; Arvind Rajagopal, MD¹; Rush University Medical Center¹

(TAS13) Combined Ravitch Procedure and Mitral Valve Repair in a Patient with Marfan Syndrome

Camille Rice, DO¹; Pablo Motta, MD²; Texas Heart Institute at CHI St. Lukes Health–Baylor St. Luke's Medical Center¹; Baylor College of Medicine²

(TAS14) Management of a Jehovah's Witness Status Post-Fontan Palliation, Presenting with a Pheochromocytoma

Natalia Diaz-Rodriguez, MD¹; Jochen Steppan, MD DESA¹; Krishnan Chakravarthy, MD PhD¹; The Johns Hopkins Medical Institutions¹

(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 Raisdana¹; University of Illinois Hospital & Health Sciences System¹

(TAS17) Not All Anterior Mediastinal Masses Are Created Equal: Challenges with Intraoperative Airway Management

Sanjeev Chhangani, MB¹; University of Florida School of Medicine¹

(TAS18) Hypoxemia on Cardiopulmonary Bypass for Large Anterior Mediastinal Mass

Johannes De Riese¹; Chase Clanton, MD¹; TTUSHC Lubbock¹

(TAS19) Acute Rupture of Anterior Mediastinal Teratoma Causing Tamponade

Alan Smeltz, MD¹; Emily Teeter, MD¹; Benjamin Haithcock, MD¹; UNC Hospital¹

(TAS20) Robot-Assisted Thymectomy for Treatment of Postpartum Female with Myasthenia Gravis Refractory to Medical Therapy

Ryan Farmer, MD MS¹; J.L. Reeves-Viets, MD MBA¹; Melissa Burger, MD MS¹; University of Missouri¹

(TAS21) Dilemma of IgA Deficiency in a Patient with a Large Mediastinal Mass Encasing the Superior Vena Cava

Cheuk Yin Lai, MD¹; Shawn Hansberry, MD²; Alexandra Lewis, MD MSc³; William Marx, MD³; Mount Sinai St. Luke's-Roosevelt Hospital Center¹; Weill Cornell Medical Center²; Memorial Sloan Kettering Cancer Center³

(TAS22) It's Only a Chest Wall Biopsy

Chiranjeev Saha, MD MS¹; Alaa Saghbini, MD¹; Ron Leong, MD¹; Rush University Medical Center¹

(TAS23) Hypoxemia During One-Lung Ventilation on a Cirrhotic Patient with Normal Pulmonary Function Test

Pingping Song, MD¹; Elliot Servais, MD¹; Carl Borromeo, MD¹; Sohail Mahboobi, MD¹; Lahey Clinic¹

(TAS24) Anesthetic Considerations and Management of a Super Obese Patient (BMI=55) with Multiple Comorbidities and Cervical Spine Rigidity Undergoing One-Lung Ventilation for Video-Assisted Thoracoscopic Right-Upper Lobe Wedge Resection Surgery

Visal Patel, MD MS¹; Saint Barnabas Medical Center¹

(TAS25) Averting a Catastrophe in a Patient with a Tracheoesophageal Fistula

Neda Sadeghi, MD¹; Alessia Pedoto, MD²; Mount Sinai St Luke's and Roosevelt Hospital¹; Memorial Sloan Kettering Cancer Center²

(TAS26) Management of Broncholithiasis with Complete Right Lower-Lobe Lung Collapse

Tiffany Moon, MD¹; Scott Reznik, MD¹; UT Southwestern¹

(TAS27) Elective Venovenous Extracorporeal Membrane Oxygenation for Resection of Endotracheal Tumor

W. Jonathan Dunkman, MD¹; Alina Nicoara, MD FASE¹; Jacob Schroder, MD¹; Momen Wahidid, MD MBA¹; Aimen El Manafi, MB ChB¹; Frederick Lombard, MB ChB FANZCA¹; Duke University Medical Center¹

(TAS28) Selective Lobar Isolation: Our Experience

Preety Roy, MD¹; Medanta, The Medicity¹

(TAS29) A Unique Strategy for Lung Isolation During Tracheobronchoplasty

Sam McLaurin, MD¹; George Whitener, MD¹; Walead Hessami, MD¹; Timothy Heinke, MD¹; George Gulden, MD; Alan Finley, MD¹; Eric Nelson, DO¹; Jacob Klapper, MD¹; James Abernathy, MD¹; Medical University of South Carolina¹

(TAS30) Management of Massive Hemoptysis During Transbronchial Lung Biopsy in a Patient with Implanted Left Ventricular Assist Device

Ross Hanson, MD¹; Alissa Sodickson, MD¹; Gyorgy Frendl, MD PhD¹; Tsukada Hisashi, MD PhD¹; Jeffrey Swanson, MD¹; Brigham and Women's Hospital¹

(TAS31) Persistent Left-Sided Atrial Flow on Transesophageal Echocardiography During Pulmonary Endarterectomy: An Early Marker of Pulmonary Artery Disruption

Lachlan Miles, MBBS (Hons) FANZCA¹; Christiana Burt, MB BChir MA(Cantab) FRCA¹; Andrew Roscoe, FRCA¹; Papworth Hospital NHS Foundation Trust¹

(TAS32) Severe Pulmonary Embolism During Total Knee Arthroplasty Revision

Santiago Luis, MD¹; Cleveland Clinic Florida¹

(TAS33) Hypoxia Due to Positive Ventilation in Edwards Syndrome Patient

Joungmin Kim, MD¹; Sanghyun Kwak, MD²; Chonnam National University Hospital¹; Chonnam National University²

(TAS34) Enhanced Recovery After Surgery: Is It the Time for Thoracic Surgery?

Lorenzo De Marchi, MD¹; Karen Halsted, MD¹; Dominic Emerson, MD¹; Jessica Ibanez, Medical Student²; Katherine Rogan, BS²; Salvatore Parascandola, BS²; Hiep Dao¹; Brian Freeman¹; Marc Margolis¹; M. Blair Marshall, MD¹; MedStar Georgetown University Hospital¹; Georgetown University School of Medicine²

(TAS35) Knowing the Angle of Right-Upper Lobe Bronchus Brings the Resurgence of the R-DLT

Jean Bussieres, MD¹; Institut Universitaire De Cardiologie Et De Pneumologie de Québec¹

(TAS36) Knowing the Length of the Right MSB Allows the Safe Use of the R-DLT

Jean Bussieres, MD¹; Institut Universitaire De Cardiologie Et De Pneumologie de Québec¹

(TAS37) Intraoperative Synthetic Colloids Increase Postoperative Delirium in Patients Undergoing Esophageal Cancer Surgery

Hyun Joo Ahn, MD PhD¹; Dae Myung Jung¹; Jin Hee Ahn¹; Samsung Medical Center, Sungkyunkwan University¹

(TAS38) Neutrophil-Lymphocyte Ratio and Risk of Atrial Fibrillation After Thoracic Surgery

Kevin Walsh, MD¹; Memorial Sloan Kettering Cancer Center¹

(TAS39) Systematic Transesophageal Sonography of Thoracic and Cervical Spinal Canal

Luiz Maracaja Neto, MD¹; McCord Tucker, DO¹; Maxim Eckmann, MD¹; University Health Sciences Center, San Antonio¹

(TAS40) Low-Cost 3D-Printed Thoracic Spine Models for Thoracic Epidural Insertion Training

Joshua Qua Hiansen, MSc¹; Azad Mashari, MD FRCPC¹; Matt Ratto, PhD²; Massimiliano Meineri, MD²; Toronto General Hospital¹; University of Toronto²

(TAS41) 3D Printing a Variable-Difficulty, Multi-Model Bronchoscopy Training System

Azad Mashari, MD FRCPC¹; Joshua Qua Hiansen, MSc¹; Matt Ratto, PhD²; Massimiliano Meineri, MD²; Toronto General Hospital¹; University of Toronto²

(TAS42) Comparison of Supraglottic Airway Device and Spontaneous Ventilation vs. Double-Lumen Endotracheal Tube and Positive Pressure Ventilation for Minor Thoroscopic Surgery: A Propensity-Matched Cohort Study

Lachlan Miles, MBBS (Hons) FANZCA¹; Kaustuv Joshi, BA (Hons)²; Guillermo Martinez, MD¹; Andrew Klein, MBBS FRCA FFICM¹; Joanne Irons, MBChB MRCP FRCA PG DipCU¹; Papworth Hospital NHS Foundation Trust¹; University of Cambridge²

(TAS43) Quality Improvement in Perioperative Pain Management: A Retrospective Review of Current Practice

Shaconda Junious, MD¹; Rebecca Klinger, MD¹; Austin Traylor, Database Analyst¹; Ishwori Dhakal, MS¹; Betty Tong, MD MHS MS¹; Brandi Bottiger, MD¹; Duke University¹

(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, MD¹; Mohamed Gaber, MD¹; Fletcher Moore, MD¹; Manuel Castresana, MD¹; Augusta University¹

(TAS46) Retractor Redesign to Enable Continuous Force Measurements Throughout Mid-Sternal Retractions in Cadavers: Implications for Chronic Post-Sternotomy Pain

Tarit Saha, MBBS FRCPC¹; Dimtri Petsikas, MD¹; Queen's University¹

(TAS47) Intercostal Nerve Block with Liposomal Bupivacaine: A Case Series

Lorenzo De Marchi, MD¹; Karen Halsted, MD¹; Katherine Rogan, BS²; Jessica Ibanez, Medical Student²; Salvatore Parascandola, BS²; Brian Freeman¹; Hiep Dao, MD¹; Marc Margolis¹; Margaret Marshall, MD¹; MedStar Georgetown University Hospital¹; Georgetown University School of Medicine²

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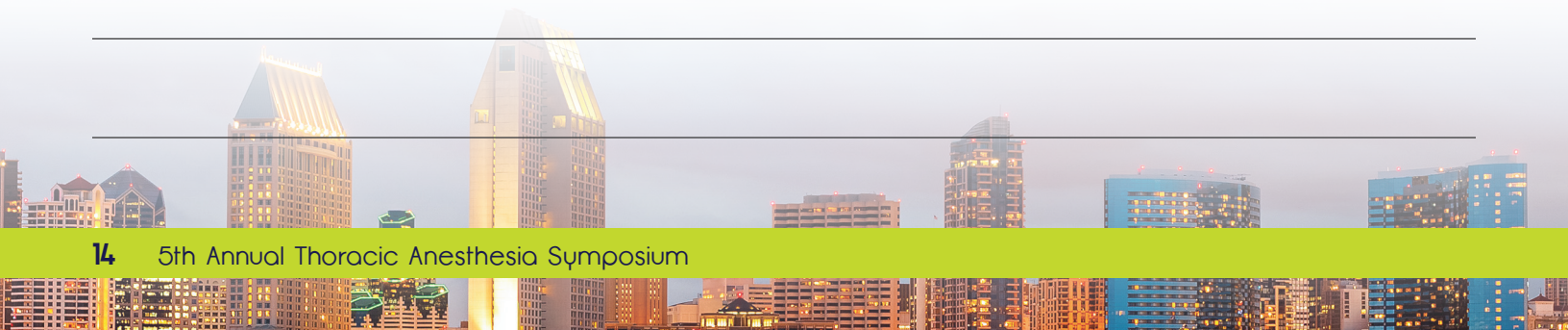
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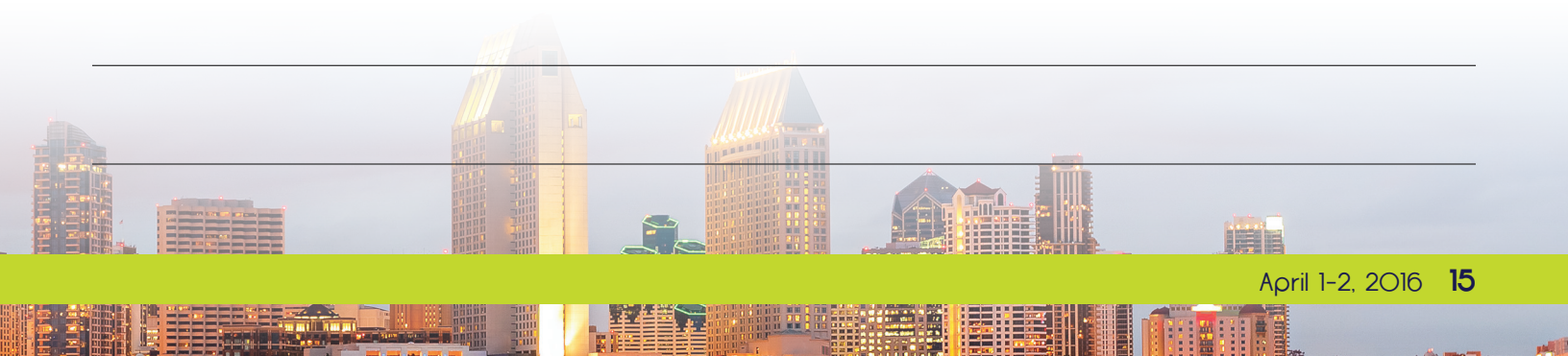
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