



Final Program

IARS 2016 Annual Meeting and
International Science Symposium
Improving Health Through Discovery and Education

May 21 – May 24, 2016

Hilton San Francisco Union Square
San Francisco, California



IARS

International Anesthesia Research Society

IARS 2016 Annual Meeting



VISIT THE SMARTTOTS BOOTH!

You'll find a plethora of pediatric anesthesia research resources. Grab the latest Consensus Statement, FAQ's and research articles.

Raffle • Wine • Chocolate

EAT FOR A CAUSE

Dine all day Monday, May 23 at 398 Brasserie! 5% will go towards SmartTots research.

SMARTTOTS PANEL

Attend our Panel Session to learn the latest research on the effects of anesthesia on the developing brain.

- Sunday, May 22 from 10:30 am – 12:00 pm, Hilton Hotel Continental Ballroom 2-3

STAY INFORMED

Sign up for our newsletter and stay abreast of the latest news and research updates:

- <http://tinyurl.com/smardtots>

DONATE

Support our critical research! Stop by the booth, make a donation, and enter our drawing to win great prizes, including a bottle of SmartTots special reserve wine, a Fitbit and more!

- Donate online at SmartTots.org/donate

smardtots.org

Welcome to

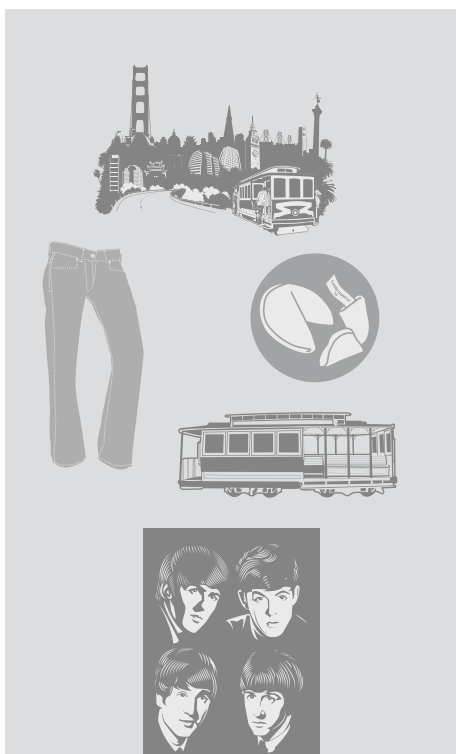
the IARS 2016 Annual Meeting and International Science Symposium and the Vibrant Energy of San Francisco, California!

Over the next four days, join over 1,000 of the world's leading anesthesia educators and researchers for an invigorating program, featuring 24 Review Course Lectures, over 35 Panels focused on cutting-edge topics in subspecialty fields, 22 Problem-Based Learning Discussions with challenging case-based scenarios, the T.H. Seldon Memorial Lecture, the International Science Symposium, 4 Interactive Ultrasound Workshops, 5 Education Symposia, a dedicated 2-day Scholars' Program, and 3 days of Moderated Poster Discussion Sessions!

Discover San Francisco, California

Take advantage of your free time during the Annual Meeting to discover all that San Francisco has to offer! The sights and scenery. The one-of-a-kind events and world-class culinary scene. The welcoming people, the diversity and rich history. Known for its many hills, San Francisco is one of the most interesting 7 square miles on the planet. Walk or ride a Cable Car up the hills that make San Francisco famous. Experience the diverse micro-climates in the city. Taste the wide range of culinary selections provided by the city with more restaurants per capita than any other U.S. city. Explore one-of-a-kind neighborhoods such as Chinatown, the Haight-Ashbury, Mission District, and dozens of other cities within the city, an array of art and cultural institutions, theater, dance and musical performances and absorb the magnetic energy that makes San Francisco unique!

10 Fun Facts About San Francisco You May Not Know



1. More than a third of San Francisco residents were born outside the United States.
2. Denim jeans were invented in San Francisco – primarily for use by the Gold Rush miners.
3. San Francisco is built on 43 hills.
4. The San Francisco Bay's average depth is no deeper than a swimming pool at approximately 12-15 feet deep.
5. The Chinese fortune cookie was invented by a Japanese resident of the city.
6. Irish coffee was perfected and made famous in San Francisco.
7. San Francisco's Cable Cars are the only moving National Monument.
8. San Francisco was originally named Yerba Buena by the Spaniards, meaning "good herb" after the wild mint that grew in the area at the time.
9. The U.S. Navy originally planned on painting the Golden Gate Bridge black with yellow stripes. The International orange color of the bridge today was supposed to be a sealant.
10. The Beatles performed their last full concert at Candlestick Park on August 29, 1966.



GREETINGS FROM THE MAYOR

As Mayor of the City and County of San Francisco, it is my pleasure to join in welcoming everyone attending the Association of University Anesthesiologists (AUA) 63rd Annual Meeting, the International Anesthesia Research Society (IARS) 2016 Annual Meeting and International Science Symposium, and the Society of Critical Care Anesthesiologists (SOCCA) 29th Annual Meeting and Critical Care Update. For the first time ever, these three organizations are aligning and bringing together over 1,500 of the world's leading anesthesia educators and investigators to San Francisco. Our City is proud to host you all.

The work that all of you have committed to – in your everyday lives and in the next few days as you share ideas – is a significant contribution to the vitality of our communities. Your many efforts have positively impacted the landscape of anesthesiology, whether your role is academic or working in clinics and laboratories. Thank you for your outstanding dedication to striving for greater knowledge and better practices for anesthesiology professionals towards the health, well-being and overall vitality of all.

San Francisco is proud to be a leader in access to world-class health care and a trailblazer in innovative breakthroughs. I commend AUA, IARS, SOCCA and all the individuals who helped to ensure these events will be a great success. Congratulations and best wishes for productive meetings and success in your future endeavors.

With warmest regards,

A handwritten signature in black ink that reads "Edwin M. Lee".

Edwin M. Lee
Mayor



IARS

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May 21, 2016

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Welcome to San Francisco and the International Anesthesia Research Society 2016 Annual Meeting and International Science Symposium. For the first time, three meetings are aligned in one location – IARS, AUA & SOCCA! We are happy to welcome you to this beautiful city for an engaging and challenging learning experience.

The thought leaders in the field will present a wide selection of dynamic education sessions, highlighting innovative topics in anesthesia, celebrating advances in education, science, research and the art of anesthesiology.

Here are some of the highlights of this year's meeting:

Saturday, May 21:

Attend the Aligned Meeting Day Sessions, available for IARS, AUA & SOCCA Annual Meeting attendees.

Dr. John P.A. Ioannidis launches the meeting at 8:00 am with the **T.H. Seldon Memorial Lecture**. Dr. Ioannidis, the C.F. Rehnberg Chair in Disease Prevention at Stanford University, will reveal his influential contributions to the advancement of epidemiology and clinical research in his talk, *Reproducible Research: Impact in Evidence-Based Decision Making*. Also, join us for two special Aligned Meeting Day Symposia: *Celebration of the Science of Anesthesiology: Protective Lung Ventilation in the Operating Room*, and *Science Symposium: State of the Art Review: Endothelial Glycocalyx in Anesthesia Practice and Critical Care Medicine*.

Saturday, May 21, and Sunday, May 22: The IARS, AUA & SOCCA Scholars' Program provides valuable resources for junior faculty members, fellows, post-docs, residents, and medical students.

Sunday, May 22: Join Drs. Emery N. Brown and Michael A. Matthay as they lead this year's International Science Symposium, from 8:00 am - 11:00 am, for an important panel on *The Promise of Stem Cell Therapies*.

Monday, May 23: Explore cutting-edge topics on *Anesthesia, Intensive Care, and the Aging Brain*, and *New Thoughts on Predicting and Preventing Chronic Pain After Surgery* during two stimulating Education Symposia.

Tuesday, May 24: Attend one or more of our Panels, Problem-Based Learning Discussions, or Review Course Lectures on the final day, or all throughout the meeting!

Continue your education and visit the Tabletop Exhibit Area for the latest advances in technology, equipment, pharmaceutical services, and medical publications.

Unwind with your peers and colleagues from the IARS, AUA and SOCCA, and the leadership of the IARS, at the *Alignment Reception* on **Saturday, May 21, 6:00 pm - 7:30 pm**. Come together and toast the educational magnetism that results when the leading minds in all subspecialties of anesthesiology join forces in one location.

We are confident you will experience the great benefits of attending this compelling and gratifying learning opportunity with your colleagues, and enjoy all San Francisco has to offer.

Sincerely,

Alex S. Evers, MD
Chair, IARS Board of Trustees

International Anesthesia Research Society

44 Montgomery Street, Suite 1605 • San Francisco, CA 94104 • Tel 415-296-6900 • Fax 415-296-6901

www.iars.org • info@iars.org

Continuing Medical Education (CME) Activity Information

Activity Overview

Findings from new research and the evolution of anesthesiology practice based on emerging evidence create an inherent gap between existing practice and new practice models. The purpose of the International Anesthesia Research Society (IARS) 2016 Annual Meeting and International Science Symposium is to provide an evidence-based and clinically-oriented educational activity that will improve competence and performance in the anesthesiology specialty, resulting in improved patient care and outcomes.

Target Audience

The IARS 2016 Annual Meeting and International Science Symposium is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists-in-training, anesthesia investigators, and allied health professionals who conduct research, practice, or intend to practice in any area of general anesthesia, subspecialty anesthesia, or pain management.

Educational Objectives

As a result of participating in this live CME activity, learners will be able to:

- Describe the latest developments in critical care, perioperative medicine, pain management, and other anesthesiology subspecialty areas.
- Evaluate gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.
- Develop and apply strategies for integrating new knowledge and behaviors into their professional practice.

Accreditation Statement

The International Anesthesia Research Society (IARS) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CME Credit

The International Anesthesia Research Society (IARS) designates this live activity for a maximum of 29 *AMA PRA Category 1 Credits*.™ Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Claiming CME Credit

The IARS will provide online program evaluation and session tracking to support claiming CME credit immediately following the close of the live activity.

Maintenance of Certification in Anesthesiology Program® (MOCA®)

Physicians wishing to have credits from this educational activity reported to the ABA for the ABA MOCA® Program may do so by entering their eight digit ABA identification number when claiming CME credit. The IARS forwards credits to the ABA on a quarterly basis.

Disclosure

The International Anesthesia Research Society (IARS) makes every effort to develop CME activities that are independent, objective, scientifically balanced presentations of information. The IARS has implemented mechanisms requiring everyone in a position to control content to disclose all relevant financial relationships with commercial interests. Relevant financial relationships are defined as financial relationships in any amount occurring within the past 12 months, including financial relationships of the spouse or partner of the person in control of content. Disclosure of any or no relationships is made available in advance of all educational activities. The IARS evaluates, and if necessary, resolves any conflicts of interest prior to the start of the activity. Individuals who refuse or fail to provide the required disclosures are disqualified from being a planning committee member, teacher, or author of CME, and cannot have control of, or responsibility for, the development, management, presentation or evaluation of the CME activity.

It is IARS policy that an employment relationship with a commercial interest presents an inherent conflict of interest that cannot be resolved successfully with respect to CME activities. Therefore, employees of commercial interests are prohibited from serving in any position to control CME content (planner, reviewer, presenter, speaker, moderator, etc.).

Disclaimer

The information provided in this CME activity is for continuing education purposes only and is not meant to substitute for the independent medical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.

Commercial Support

The following commercial interests have provided support for this live activity: Masimo (satellite symposium), CAE Healthcare (gift in-kind), FUJIFILM SonoSite, Inc. (gift in-kind), Inventive Medical, Ltd. (gift in-kind), Philips North America (gift in-kind), and Teleflex (gift in-kind).

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General Information

How to Use the Program

In this Program, you will find the information needed to make the most of your Annual Meeting experience. Included is a complete listing of Annual Meeting events and Schedule-At-A-Glance grids for each day.

The education sessions and the moderated poster discussion sessions are listed by day and then by time within the Program.

See page 9 of this book for a map of the Hilton San Francisco Union Square with meeting rooms and Tabletop Exhibits.

Key for Anesthesia Subspecialty Education Sessions

All education sessions at the Annual Meeting are coded by the anesthesia subspecialty for which they pertain. Please see below for the Anesthesia Subspecialty Key.

AM = Airway Management	O = Obesity
AMB = Ambulatory Anesthesia	OB = Obstetric Anesthesiology
AP = Anesthetic Pharmacology	PA = Perioperative Anesthesia
CA = Cardiovascular Anesthesiology	PED = Pediatric Anesthesiology
CC = Critical Care	PM = Pain Medicine
ECP = Economics, Education and Policy	PME = Pain Mechanisms
EP = Epidemiology	PS = Patient Safety
GA = Geriatric Anesthesia	RA = Regional Anesthesia
GH = Global Health	SM = Sleep Medicine
L = Liver	TCSEM = Technology, Computing and Simulation, Equipment Monitoring
NR = Neuroscience in Anesthesiology and Perioperative Medicine	T = Trauma

Location

IARS 2016 Annual Meeting Headquarters Hotel

Hilton San Francisco Union Square Hotel

333 O'Farrell Street

San Francisco, California 94102

t 415-771-1400

The Annual Meeting education sessions take place on the Lobby, Ballroom, and Fourth Floor levels of the hotel. The registration desk, tabletop exhibits, continental breakfast, breaks and the Alignment Reception will be held in the East Lounge on the Ballroom Level of the hotel.

Registration

Your registration materials will be available for pick up at the Registration Desk in the East Lounge on the Ballroom Level.

IARS Onsite Registration Hours

Thursday, May 19	7:00 am – 5:30 pm
Friday, May 20	6:00 am – 6:00 pm
Saturday, May 21	6:00 am – 6:00 pm
Sunday, May 22	6:00 am – 6:00 pm
Monday, May 23	6:00 am – 6:00 pm
Tuesday, May 24	6:00 am – 12:00 pm

Registration Materials

Registration materials will include a printed copy of the IARS 2016 Annual Meeting and International Science Symposium Program. The Abstract Supplement and Review Course Lecture Book will be available on the IARS website at www.iars.org.

Registration Fee

The Annual Meeting registration fee includes access to the T.H. Seldon Memorial Lecture, International Science Symposium, Review Course Lectures, Panels, Symposia, the Scholars' Program*, Awards Sessions, Moderated Poster Discussion Sessions, and Tabletop Exhibits. Problem-Based Learning Discussions (PBLDs) and Workshops are limited seating and require an additional non-refundable fee. If seating is still available, tickets may be purchased at the Registration Desk. (**The Scholars' Program requires advanced registration to attend.*)

Name Badges

Your registration packet includes your name badge which you must wear at all times while attending events in the hotel. Only attendees with name badges will be admitted to meeting rooms. If you misplace your badge, please visit the Registration Desk for a replacement.

Tabletop Exhibits

The Tabletop Exhibits are located in the East Lounge on the Ballroom Level. Please join us in the East Lounge for the Alignment Reception on Saturday, May 21, from 6:00 pm - 7:30 pm.

Tabletop Exhibit Hours:

Saturday, May 21	6:30 am – 1:00 pm
	4:00 pm – 7:30 pm
	Alignment Reception 6:00 pm – 7:30 pm
Sunday, May 22	6:30 am – 4:30 pm
Monday, May 23	6:30 am – 10:30 am

For complete information on the Tabletop Exhibits, please refer to the Exhibitor & Sponsor Guide in your registration materials.

Services

IARS Member Resource Center

The IARS is anesthesiology's non-political organization focused on providing scientific and evidence-based safe anesthesia care. The IARS Member Resource Center is located in the South Lounge on the Ballroom Level.

Internet Availability

Complimentary wireless internet is available in the conference and exhibit area and all IARS scheduled meeting rooms. Open your internet browser and choose the network labeled, **"Hilton Events"**. When prompted for an access code, enter **"AM2016"**. Please no streaming or video downloads.



Annual Meeting App

The IARS 2016 Annual Meeting and International Science Symposium features an interactive app, enabling you to view the complete event schedule, explore session and speaker details and opportunities to network with other attendees. Participate in the Leaderboard Contest each day for a chance to win prizes (see the Leaderboard Contest section of the app for more information). Download the app, IARS 2016, available for iPhone, iPad, Android, and HTML5 for Blackberry in the Google Play and Apple Stores today. Your username for the app is the email with which you registered for the Annual Meeting. The password for all users is: **"IARS2016"**. Expand your professional network and make the most of your Annual Meeting experience! Any questions? Contact iarsapp@iars.org.

Information

Electronic Devices

Please silence all electronic devices during education sessions. Videotaping and recording of sessions is not allowed without written permission from the presenter(s).



Photography Release

The IARS plans to take photographs at the IARS 2016 Annual Meeting and International Science Symposium and reproduce them in IARS news or promotional materials, whether in print, electronic or other media, including the IARS website. By participating in the IARS 2016 Annual Meeting and International Science Symposium, you grant the IARS the right to use your name, photograph, and biography for such purposes.



No Smoking Policy

Smoking is not permitted at IARS events. We respectfully request that you abide by our smoke-free policy.

Special Services

If you have a special need, please see IARS staff at the Registration Desk.

Information – continued

IARS On Demand – New in 2016!

IARS On Demand will maximize your Annual Meeting investment and provide valuable additional CME, watch sessions you missed or revisit sessions you attended. The CME-accredited IARS On Demand program includes easy online access to approximately 100 hours of presentations, downloadable MP3 and PDF files, integrated online CME and a complimentary USB drive. You will save \$1,000 off the regular price if you purchase the upgrade before the meeting ends. Visit the IARS On Demand Tabletop Exhibit in the East Lounge on the Ballroom Level of the hotel for more information.

Special Events

Scholars' Program Reception

Meet your mentor, socialize and discuss the first day's curriculum and tips for advancing your career with your fellow scholars at the Scholars' Program Reception,* Saturday, May 21, from 5:00 pm to 6:00 pm. This mentorship opportunity is supported by FAER's Academy of Research Mentors in Anesthesiology. (**The Scholars' Program Reception requires advanced registration to attend.*)

Celebrate the Alignment of the IARS, AUA and SOCCA Annual Meetings

Attend a special Alignment Reception on Saturday, May 21, from 6:00 pm to 7:30 pm, to toast the alignment of three great educational programs, bringing together the leading minds in anesthesiology and its subspecialties in one location. Visit the IARS tabletop exhibits, and catch up with your colleagues at this aligned celebration.

San Francisco Travel Tips

Time Zone

San Francisco follows Pacific Time (PT).

Transportation

San Francisco is a mosaic of walkable neighborhoods, many located on hills offering spectacular views. Bay Area Rapid Transit (BART) and the local transit system Muni offer easy access to all neighborhoods. Muni consists of the famous cable cars, buses, light rail, and street cars. Taxis, Lyft and Uber cars are also readily available throughout the city. For more information, visit http://www.iars.org/education/annual_meeting/2016/travel/.

Travel Apps

Apps have made it easy for visitors traveling in San Francisco. Try Lyft or Uber to get around the city at a reasonable price or use the NextBus app for real-time next bus arrivals. For more travel app tips, visit http://www.iars.org/education/annual_meeting/2016/travel/.

Weather

Temperatures seldom rise above 70° F (21°C) or fall below 40°F (5° C). San Francisco has a temperate climate with mild weather year-round. Morning and evening fog rolls in during the summer months. August through October is the warmest time of the year. Dressing in layers is recommended. The weather can change by the hour (and also within just a few blocks), so keep a light jacket handy. Comfortable shoes are a must as well.

General Information

Restaurants at the Hilton San Francisco Union Square

Illy Coffee (Coffee)

Main Lobby
Hours: 6:00 am – 12:00 am

Herb n' Kitchen (Contemporary All-Day Restaurant)

Main Lobby
Breakfast, Lunch, & Dinner: 6:00 am – 12:00 am
Delivery to Guest Rooms: 6:00 am – 10:00 am; 6:00 pm – 10:00 pm

Urban Tavern (Breakfast Only)

Main Lobby
6:00 am - 11:00 am

Restaurants near the Hilton San Francisco Union Square

398 Brasserie

Breakfast & Brunch, Brasseries
398 Geary St.
415-212-8196
<http://www.398restaurantsf.com>

Colibri Mexican Bistro

Mexican
438 Geary St.
415-440-2737
Distance from Hotel: 2 minutes
<http://colibrimexicanbistro.net>

Farmerbrown

Southern, Soul Food, Breakfast & Brunch
25 Mason St.
415-409-3276
Distance from Hotel: 2 minutes
<http://www.farmerbrownssf.com>

Kare-Ken

Japanese
552 Jones St.
415-292-5273
Distance from Hotel: 2 minutes
<http://www.kare-ken.com>

Kusina Ni Tess

Filipino
237 Ellis St.
415-351-1169
Distance from Hotel: 2 minutes

Shalimar Restaurant

Indian
532 Jones St.
415-928-0333
Distance from Hotel: 2 minutes
<http://www.shalimarsf.com>

Bluestem Brasserie

Brasseries
One Yerba Buena Lane
415-547-1111
<http://www.bluestembrasserie.com>

Daily Grill

American
347 Geary St.
415-616-5000
Distance from Hotel: 2 minutes
<http://www.dailygrill.com>

Fish & Farm

American
339 Taylor St.
415-474-3474
Distance from Hotel: 2 minutes
<http://www.fishandfarmsf.com>

Katana-Ya

Japanese
430 Geary St.
415-771-1280
Distance from Hotel: 2 minutes
<http://www.katanayausa.com>

Liholiho Yacht Club

Japanese
871 Sutter St.
415-440-5446
Distance from Hotel: 2 minutes
<http://liholihoyachtclub.com>

Pho Tan Hoa

Vietnamese
431 Jones St.
415-673-3163
Distance from Hotel: 2 minutes

Taylor Street Coffee Shop

Breakfast & Brunch, Burgers, Sandwiches
375 Taylor St.
415-567-4031
Distance from Hotel: 2 minutes

Chabaa Thai Cuisine

Thai
420 Geary St.
415-346-3121
Distance from Hotel: 2 minutes
<http://www.chabaathaicuisinesf.com>

Daniel's Café

Coffee & Tea, Bagels, Delis
154 Ellis St.
415-956-1760
Distance from Hotel: 2 minutes

Hops & Hominy

Southern, American
1 Tillman Pl.
415 373-6341
<http://hopsandhominy.com>

Kin Khao

Thai
55 Cyril Magnin St.
415-362-7456
Distance from Hotel: 2 minutes
<http://kinkhao.com>

Coffee near the Hilton San Francisco Union Square

Angel Café & Deli

700 Geary St.
415-931-3467
Distance from Hotel: 2 minutes

Coffee Bean & Tea Leaf

773 Market St.
415-896-5029
Distance from Hotel: 5 minutes
<http://www.coffeebean.com>

Paris Café

704 Post St.
415-292-6856
Distance from Hotel: 2 minutes

Beanstalk Café

724 Bush St.
415-567-1966
Distance from Hotel: 3 minutes

Farm Table

754 Post St.
415-567-1966
Distance from Hotel: 2 minutes
<http://www.farmtablesf.com>

Philz Coffee

399 Golden Gate Ave
415-621-7000
Distance from Hotel: 7 minutes
<http://www.philzcoffee.com>

Blue Bottle Coffee Co.

611 Post St.
510-653-3394
Distance from Hotel: 3 minutes
<https://bluebottlecoffee.com/cafes/mint-plaza>

Fresh Brew Coffee

882 Bush St.
415-567-0915
Distance from Hotel: 3 minutes

Starbucks

201 Powell St.
415-835-2470
Distance from Hotel: 2 minutes
<http://www.starbucks.com>

Other Restaurants of Note

Acquerello

Italian
1722 Sacramento St.
415-567-5432
<http://www.acquerello.com>

Gary Danko

American
800 N Point St.
415-749-2060
<http://www.garydanko.com>

Jardinière

French
300 Grove St.
415-861-5555
<http://www.jardinierere.com>

Boulevard

French
1 Mission St.
415-543-6084
<http://www.boulevardrestaurant.com>

The House

Asian Fusion
1230 Grant Ave.
415-986-8612
<http://www.thehse.com>

Nopa

American, Modern European
560 Divisadero St.
415-864-8643
<http://www.nopasf.com>

Foreign Cinema

Mediterranean
2534 Mission St.
415-648-7600
<http://www.foreigncinema.com>

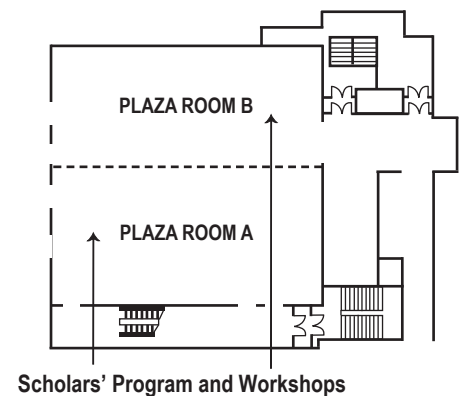
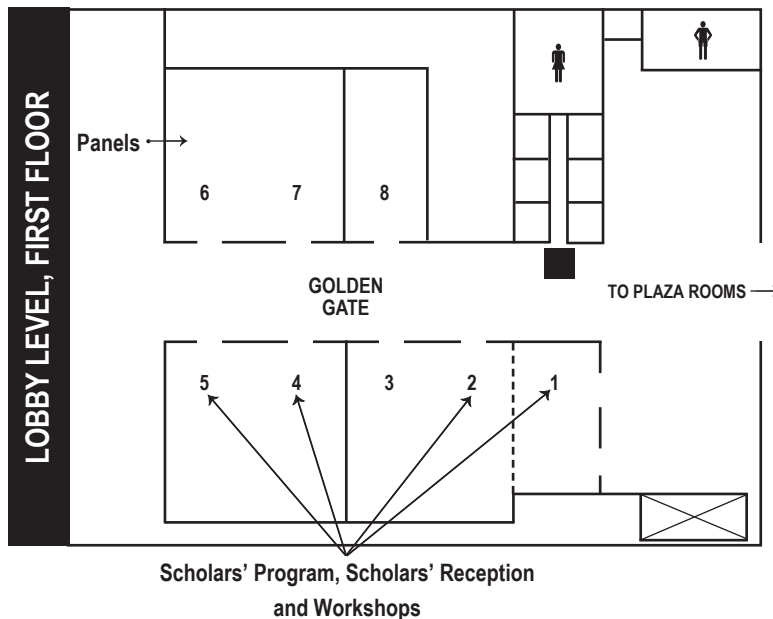
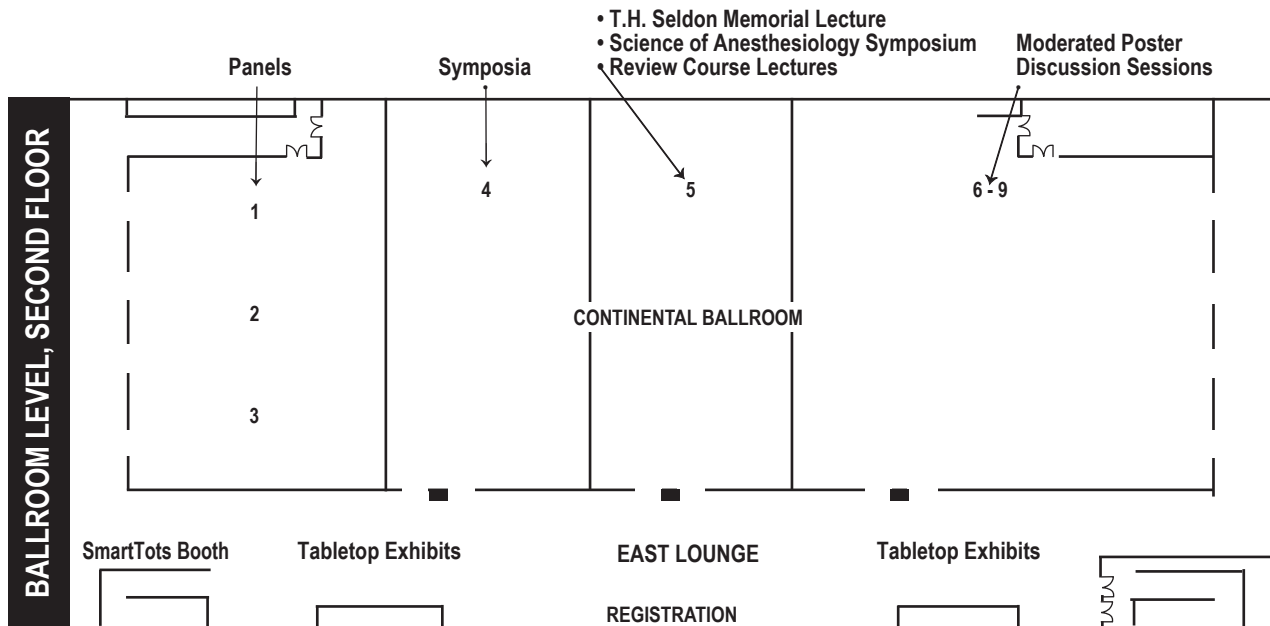
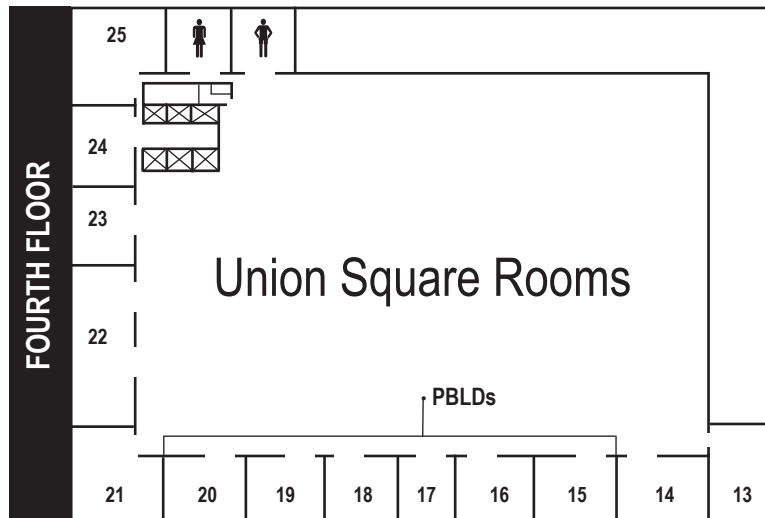
House of Prime Rib

Steakhouse
1906 Van Ness Ave.
415-885-4605
<http://www.houseofprimerib.net>

State Bird Provisions

American, Brasseries
500 Brannan St.
415-777-1413
<http://statebirdsf.com>

General Information





Education Highlights at the IARS 2016 Annual Meeting

Attendees at the IARS, AUA and SOCCA Annual Meetings will have the opportunity to take advantage of a special Aligned Meeting Day on Saturday, May 21 at the IARS 2016 Annual Meeting and International Science Symposium. The thought leaders in the field will present a wide selection of robust education sessions, highlighting pioneering topics in anesthesia, and celebrating advances in education, science, research and the art of anesthesiology. Don't miss the spirited Alignment Reception to end the Aligned Meeting Day on a high note!

Aligned Meeting Day Sessions Include

T.H. Seldon Memorial Lecture

Saturday, May 21, 8:00 am - 9:00 am

Reproducible Research: Impact in Evidence-Based Decision Making

Opening Session Presenter **John P.A. Ioannidis, DSc, MD**, the C.F. Rehnberg Chair in Disease Prevention at Stanford University, has designed, steered and participated in influential randomized trials (in particular, the major trials that changed decisively the management and outcome of HIV infection, but also trials in nephrology, and in antibiotic use in the community), and large international consortia that have helped transform the efficiency of research in diverse fields of genomic, molecular and clinical epidemiology. *The Atlantic* selected Dr. Ioannidis as the Brave Thinker scientist for 2010, claiming that he "may be one of the most influential scientists alive." Join him at the T.H. Seldon Memorial Lecture as he reveals his influential contributions to the advancement of epidemiology and clinical research.

AUA: Celebration of the Science of Anesthesiology Symposium

Saturday, May 21, 9:30 am - 12:00 pm

Protective Lung Ventilation in the Operating Room

Co-Moderators: Brian Kavanagh, MB, BSc, MRCP(I), FRCP(C), FFARCS(I) Hons, and Marcos F. Vidal Melo, MD, PhD

Panelists:

Holger K. Eitzschig, MD, PhD, Professor of Anesthesiology, Medicine, Cell Biology and Immunology, Director, Organ Protection Program, Chief, Anesthesia Service for Oncologic Surgery, Department of Anesthesiology, University of Colorado School of Medicine, Aurora, Colorado

Marcelo Gama de Abreu, MD, MSc, PhD, DESA, Head of Research, Vice Director, Department of Anesthesiology and Intensive Care, University Hospital Carl Gustav Carus, Dresden University of Technology, Dresden, Germany

Brian Kavanagh, MB, BSc, MRCP(I), FRCP(C), FFARCS(I) Hons, Chair, Department of Anesthesia; Professor of Anesthesia, Medicine and Physiology, University of Toronto; Dr. Geoffrey Barker Chair in Critical Care Research, Hospital for Sick Children, Toronto, Ontario, Canada

Marcos F. Vidal Melo, MD, PhD, Associate Professor, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts



IARS, AUA, & SOCCA Science Symposium

Saturday, May 21, 1:00 pm - 4:00 pm

State of the Art Review: Endothelial Glycocalyx in Anesthesia Practice and Critical Care Medicine

Moderator: Randal Dull, MD, PhD, Professor & Vice Chair for Research Department of Anesthesiology University of Illinois at Chicago, Chicago, Illinois

Panelists:

Sisse R. Ostrowski, MD, PhD, DMSc, Chief Physician, Associate Professor, Copenhagen University Hospital, Copenhagen, Denmark

Jean-Francois Pittet, MD, David H. Chestnut Professor of Anesthesiology; Professor of Surgery; Investigator, Center for Lung Injury and Repair; Investigator, Alabama Resuscitation Center, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, *Anesthesia & Analgesia*; Editor-in-Chief, *A&A Case Reports*

Eric Schmidt, MD, Associate Professor of Medicine Division of Pulmonary Sciences and Critical Care Medicine, University of Colorado School of Medicine Denver Health Medical Center, University of Colorado, Denver, Denver, Colorado

Hans Vink, PhD, Associate Professor of Vascular Physiology, Department of Physiology, Cardiovascular Research Institute Maastricht, Maastricht University, Maastricht, The Netherlands

SOCCA Focus on Critical Care Day – Saturday, May 21

The Society of Critical Care Anesthesiologists (SOCCA) Focus on Critical Care Day on Saturday, May 21 will examine and challenge current practices in critical care and highlight new discoveries in research and education. This invigorating education program, presented by the leaders in critical care anesthesiology, includes the following sessions:

- **PBLD:** *Please Mend My Broken Heart*
- **Panels:** (1) *Optimizing the Patient During the Perioperative Period*; (2) *Sepsis: Current Controversies*; and (3) *Perioperative Medicine and Critical Care Anesthesiology*
- **Review Course Lectures:** (1) *Bad, Bad Blood*; and (2) *What's New in Perioperative Resuscitation?*

SOCCA full registrants attend these bonus Focus on Critical Care sessions as part of their SOCCA Annual Meeting registration fee.

Scholars' Program – Saturday, May 21 to Sunday, May 22

The IARS Scholars' Program* brings together high-impact researchers and field-leaders from anesthesiology and beyond to offer a customizable experience for concrete and impactful career and scientific development advice for junior faculty members, fellows, post-docs, residents, and medical students. Residency coordinators and T32 directors may also find the stimulating educational content of value for advancing his or her programs. The education program will include two days of energizing lectures on a wide range of topics of interest to scholars, dynamic and interactive sessions for small groups, a Scholars' Abstract Awards Session, and Mentored Moderated Poster Discussion Sessions plus a Scholars' Program Reception with mentoring opportunities supported by FAER's Academy of Research Mentors in Anesthesiology, on Saturday, May 21, from 5:00 pm to 6:00 pm. (**The Scholars' Program and Reception requires advanced registration to attend.*)



Join Us for a Special Reception to Celebrate the Alignment of the IARS, AUA and SOCCA Annual Meetings in One Location – San Francisco, California!

Alignment Reception – Saturday, May 21, 6:00 pm to 7:30 pm

Come together and toast the educational magnetism that results when the leading minds in all subspecialties of anesthesiology come together in one location. Join your colleagues and peers for the upbeat Alignment Reception on Saturday, May 21, from 6:00 pm to 7:30 pm, and taste a little bit of the unique flavor that San Francisco has to offer. AUA and SOCCA Annual Meeting registrants are invited to attend this reception.

Opening General Session

CC, EP,
PM, PME

Saturday, May 21 ■ 8:00 am – 9:00 am



T.H. Seldon Memorial Lecture

Reproducible Research: Impact in Evidence-Based Decision Making

John P.A. Ioannidis, DSc, MD

C.F. Rehnborg Chair in Disease Prevention, Stanford Prevention Research Center at the School of Medicine; Professor of Health Research and Policy (Epidemiology) and, by Courtesy, of Statistics, School of Humanities and Sciences; Director of PhD Program in Epidemiology and Clinical Research; Co-Director, Meta-Research Innovation Center, Stanford University, Stanford, California

John P.A. Ioannidis, DSc, MD, has designed, steered and participated in influential randomized trials (in particular, the major trials that changed decisively the management and outcome of HIV infection, but also trials in nephrology, and in antibiotic use in the community), and large international consortia that have helped transform the efficiency of research in diverse fields of genomic, molecular and clinical epidemiology.

A member of the executive board of the Human Genome Epidemiology Network, and Senior Advisor on Knowledge Integration at NIC/NIH, he is one of the most-cited scientists worldwide, placing him among the 100 most-cited authors among the more than 20 million authors publishing across science. Some of his most influential papers address issues of replication validity of genetic association studies, biases in biomedical research, research synthesis methods, extensions of meta-analysis, genome-wide association studies and agnostic evaluation of associations, and validity of randomized trials and observational research. The PLoS Medicine paper on “Why Most Published Research Findings are False” has been the most-accessed article in the history of the Public Library of Science with 1.4 million hits.

Editor-in-Chief of the *European Journal of Clinical Investigation*, Dr. Ioannidis has delivered more than 350 invited and honorary lectures, and has received many awards including induction into the Association of American Physicians in 2009 and the European Academy of Cancer Sciences in 2010. *The Atlantic* selected Dr. Ioannidis as the Brave Thinker scientist for 2010, claiming that he “may be one of the most influential scientists alive.”

T.H. Seldon Memorial Lecture

Established to honor Dr. “Harry” Seldon, the *Anesthesia & Analgesia* Editor-In-Chief for 23 years from 1954-1976. It became the T.H. Seldon Memorial Lecture in 1992 after Dr. Seldon’s death in 1991.

International Science Symposium

CA, NR

Sunday, May 22 ■ 8:00 am - 11:00 am

The Promise of Stem Cell Therapies

Introduction:

Emery N. Brown, MD, PhD

Warren M. Zapol Professor of Anaesthesia, Harvard Medical School
Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital
Edward Hood Taplin Professor of Medical Engineering, Institute for Medical Engineering and Science; Professor of Computational Neuroscience, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Boston, Massachusetts

Moderator:

Michael A. Matthay, MD

Professor of Medicine and Anesthesia; Senior Associate, Cardiovascular Research Institute; Director of the Critical Care Medicine Training in the Department of Medicine, Associate Director of the Intensive Care Unit, University of California, San Francisco, San Francisco, California

Panelists:

■ **Stem Cell Therapy for Heart Disease**

Sunjay Kaushal, MD, PhD, Associate Professor Division of Cardiac Surgery, Director of Pediatric and Adult Congenital Cardiac Surgery, University of Maryland Medical Center, Baltimore, Maryland

■ **Stem Cell Therapy for Lung Disease**

John G. Laffey, MD, MA, FCAI, FJFICMI, Anesthetist in Chief, St. Michael's Hospital; Scientist, Keenan Research Centre for Biomedical Sciences, St. Michael's Hospital; Co-Director, Critical Illness and Injury Research Centre, St. Michael's Hospital; Professor, Departments of Anesthesia and Physiology, University of Toronto, Toronto, Ontario, Canada

■ **Stem Cell Based Therapies for Brain Repair**

Cindi M. Morshead, PhD, Professor and Chair, Division of Anatomy, Department of Surgery, Rehabilitation Sciences Institute, Institute of Biomaterial and Biomedical Engineering, The Donnelly Centre, University of Toronto, Toronto, Ontario, Canada

Daily Schedule-At-A-Glance

6:00 am – 6:00 pm	Registration	12:00 pm – 1:00 pm	Problem-Based Learning Discussions (PBLDs)
7:30 am – 8:00 am	Welcome and Opening Remarks	1:00 pm – 4:00 pm	IARS, AUA & SOCCA Science Symposium <i>State of the Art Review: Endothelial Glycocalyx in Anesthesia Practice and Critical Care Medicine</i>
8:00 am – 9:00 am	T.H. Seldon Memorial Lecture <i>Reproducible Research: Impact in Evidence-Based Decision Making</i> John P.A. Ioannidis, DSc, MD	1:00 pm – 5:00 pm	Scholars' Program Education Sessions
9:30 am – 12:00 pm	AUA: Celebration of the Science of Anesthesiology Symposium <i>Protective Lung Ventilation in the Operating Room</i>	5:00 pm – 6:00 pm	Scholars' Program Reception
9:30 am – 6:00 pm	Concurrent Sessions • Review Course Lectures • Panels • Workshop • Moderated Poster Discussion Sessions	6:00 pm – 7:30 pm	Alignment Reception
6:30 am – 1:00 pm • 4:00 pm – 7:30 pm Tabletop Exhibits			

7:30 am – 8:00 am IARS Welcome and Opening Remarks

Kickoff the IARS 2016 Annual Meeting and International Science Symposium and get a glimpse of all the invigorating education sessions available over the next four days.

8:00 am – 9:00 am

T.H. SELDON MEMORIAL LECTURE

Reproducible Research: Impact in Evidence-Based Decision Making



John P.A. Ioannidis, DSc, MD
C.F. Rehnborg Chair in Disease Prevention, Stanford Prevention Research Center at the School of Medicine; Professor of Health Research and Policy (Epidemiology) and, by Courtesy, of Statistics, School of Humanities and Sciences; Director of PhD Program in Epidemiology and Clinical Research; Co-Director, Meta-Research Innovation Center, Stanford University, Stanford, California

CC, EP, PM, PME

PANELS 9:30 am - 11:00 am

P-01 Trauma, Critical Care and Emergency Anesthesiology: A New Paradigm For the “Acute Care” Anesthesiologist?

Moderator: Maureen McCunn, MD, MIPP, FCCM

Panelists:

- **Why We Need the Acute Care Anesthesiologist**
Maureen McCunn, MD, MIPP, FCCM, Associate Professor Department of Anesthesiology, R Adams Cowley Shock Trauma Center, University of Maryland School of Medicine, Baltimore, Maryland
- **The Development of Acute Care Surgery: Evolution, Outcomes, Practices and Pitfalls**
Catherine Juillard, MD, MPH, Assistant Professor, Co-Director of the UCSF Center for Global Surgical Studies, University of California, San Francisco, San Francisco, California
- **Acute Care Anesthesiology in the Perioperative Surgical Home: How Do We Make It Work?**
Jean-Francois Pittet, MD, David H. Chestnut Professor of Anesthesiology; Professor of Surgery; Investigator, Center for Lung Injury and Repair; Investigator, Alabama Resuscitation Center, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, *Anesthesia & Analgesia*; Editor-in-Chief, *A&A Case Reports*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Propose an expanded clinical practice for anesthesiologists that reflects the practice of Acute Care Surgery; (2) Discuss the opportunities to enhance perioperative patient management and patient outcome in this high-risk, emergent care patient population; and (3) Review organizational, educational, financial benefits of acute care (trauma, critical care and emergencies) and the role for ACA in the surgical home.

CC, EEP, PA, PS, T



P-02 Can We Design Safer Anesthetics?

Moderator: James M. Sonner, MD, Professor, Anesthesia, University of California, San Francisco, San Francisco, California; Immediate Past President, ISAP

Panelists:

Roderic G. Eckenhoff, MD, Vice Chair for Research, Austin Lamont Professor of Anesthesiology and Critical Care, University of Pennsylvania, Philadelphia, Pennsylvania

Edmond Eger, MD, Professor, Department of Anesthesia, University of California, San Francisco, San Francisco, California

Vesna Jevtovic-Todorovic, MD, PhD, MBA, Professor and Chair, Department of Anesthesiology, University of Colorado School of Medicine, Aurora, Colorado; President, ISAP

Douglas Raines, MD, Professor, Anaesthesia, Harvard Medical School; Anesthesiologist, Massachusetts General Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Summarize what we know about how anesthetics work; (2) Identify the side effects of anesthetics that new anesthetics are developed to reduce; and (3) Create strategies for developing novel anesthetics.

AP, PM, PME, PS



P-03 Optimizing the Patient During the Perioperative Period

Moderator: Patricia Murphy, MD, Associate Professor, Department of Anesthesiology, University of Toronto, Toronto, Ontario, Canada; International Representative, SOCCA

Renal Protective Strategies

Linda Liu, MD, Professor, Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California; Director, SOCCA

Delirium/Cognitive Dysfunction in the Continuum of Care

Christopher G. Hughes, MD, Associate Professor of Anesthesiology; Program Director, Anesthesia Critical Care Medicine, Vanderbilt University Medical Center, Nashville, Tennessee

Heart Failure

Andrew Steel, MBBS, Assistant Professor, Department of Anesthesiology, University of Toronto, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review prevalence of major organ dysfunction in the perioperative period and the role of the perioperative clinician to optimize patient outcomes; (2) Discuss the potential etiologies of perioperative cognitive dysfunction and the emerging role of protective strategies and therapies; (3) Review evidence-based renal protective strategies in the perioperative period; and (4) Discuss potential and known causative factors resulting in perioperative heart failure and emerging therapies.

CA, CC, NR, PA, PS

Anesthesia Subspecialty Key for Education Sessions

All education sessions at the Annual Meeting are coded by the anesthesia subspecialty for which they pertain.

AM = Airway Management	EP = Epidemiology	O = Obesity	PS = Patient Safety
AMB = Ambulatory Anesthesia	GA = Geriatric Anesthesia	OB = Obstetric Anesthesiology	RA = Regional Anesthesia
AP = Anesthetic Pharmacology	GH = Global Health	PA = Perioperative Anesthesia	SM = Sleep Medicine
CA = Cardiovascular Anesthesiology	L = Liver	PED = Pediatric Anesthesiology	TCSEM = Technology, Computing and Simulation, Equipment Monitoring
CC = Critical Care	NR = Neuroscience in Anesthesiology and Perioperative Medicine	PM = Pain Medicine	T = Trauma
EEP = Economics, Education and Policy		PME = Pain Mechanisms	

9:30 am - 12:00 pm



SYMPOSIUM

Celebration of the Science of Anesthesiology *Protective Lung Ventilation in the Operating Room*

Co-Moderator:

Brian Kavanagh, MB, BSc, MRCP(I), FRCP(C), FFARCS(I) Hons

Co-Moderator:

Marcos F. Vidal Melo, MD, PhD

Panelists:

Holger K. Eitzschig, MD, PhD, Professor of Anesthesiology, Medicine, Cell Biology and Immunology, Director, Organ Protection Program, Chief, Anesthesia Service for Oncologic Surgery, Department of Anesthesiology, University of Colorado School of Medicine, Aurora, Colorado

Marcelo Gama de Abreu, MD, MSc, PhD, DESA, Head of Research, Vice Director, Department of Anesthesiology and Intensive Care, University Hospital Carl Gustav Carus, Dresden University of Technology, Dresden, Germany

Brian Kavanagh, MB, BSc, MRCP(I), FRCP(C), FFARCS(I) Hons, Chair, Department of Anesthesia; Professor of Anesthesia, Medicine and Physiology, University of Toronto; Dr. Geoffrey Barker Chair in Critical Care Research, Hospital for Sick Children, Toronto, Ontario, Canada

Marcos F. Vidal Melo, MD, PhD, Associate Professor, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

AM, CA, CC, PA

PROBLEM-BASED LEARNING DISCUSSIONS

12:00 pm - 1:00 pm

PBLD-SAT-01 Endovascular and Open Intracranial Aneurysms: Current Neuroanesthesia Practices

Moderator: John Bebawy, MD, Assistant Professor of Anesthesiology & Neurological Surgery, Associate Director, Neurosurgical Anesthesiology Fellowship Program, Director, Neurosurgical Anesthesia Education, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe current anesthetic management goals for endovascular treatment of an intracranial aneurysm; (2) Describe current anesthetic management goals for surgical treatment of an unruptured and ruptured intracranial aneurysm; (3) Explain current neuromonitoring modalities for intracranial aneurysm surgery and the rationale for their use; and (4) Interpret up-and-coming management options for optimizing aneurysm clipping conditions, making clipping possible, and for managing sudden intraoperative aneurysm rupture (IAR) of an intracranial aneurysm.

AP, CA, EEP, NR

PBLD-SAT-02 Pediatric Difficult Airway: Effective Management Options*

Co-Moderator: Lisa E. Sohn, MD, Pediatric Anesthesiologist, Ann & Robert H. Lurie Children's Hospital of Chicago; Assistant Professor in Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Co-Moderator: Narasimhan Jagannathan, MD, Attending Pediatric Anesthesiologist, Associate Chairman, Academic Affairs, Ann & Robert H. Lurie Children's Hospital of Chicago; Associate Professor of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe airway management principles unique to the pediatric airway, including the application of these principles using an evidenced-based practice in cases of children with difficult airways; (2) Discuss the various newer airway devices that are clinically effective in the management of the pediatric airway; and (3) Evaluate management options of the unanticipated difficult airway in a child after induction of anesthesia.

* Session also available on May 23

AM, PED, PS

Come Take Your Photo with the Golden Gate Bridge!

Stop and take your photo in front of the Golden Gate Bridge without leaving the meeting! Upload your photo to the IARS 2016 Annual Meeting app and earn badges. The Golden Gate Bridge photo op is located in the East Lounge, across from Continental 6-9, of the Ballroom Level of the hotel.



PROBLEM-BASED LEARNING DISCUSSIONS

12:00 pm - 1:00 pm Continued



PBLD-SAT-03 Please Mend My Broken Heart

Moderator: Miko Enomoto, MD, Clinical Associate Professor, Critical Care Medicine, Program Director, Department of Anesthesiology and Perioperative Medicine, Oregon Health and Science University, Portland, Oregon

Learner Objectives: After participating in this activity, the learner will be able to: (1) Differentiate between primary and secondary graft dysfunction following heart transplantation; (2) Discuss the causes of secondary graft dysfunction including hyperacute rejection, sepsis, RV dysfunction secondary to pulmonary hypertension, hemorrhagic shock, and myocardial ischemia; (3) Assess and evaluate medical and mechanical circulatory support options; and (4) Discuss timing of re-transplantation.

CA, CC

PBLD-SAT-04 Tonsillectomy in Obese Children: Fools Dare Where Angels Fear to Tread!

Co-Moderator: Olubukola Nafiu, MD, FRCA, MS, Assistant Professor, University of Michigan, Ann Arbor, Ann Arbor, Michigan

Co-Moderator: Elizabeth Yun, MD, Associate Professor, University of Wisconsin Medical School and Public Health, Madison, Wisconsin

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the epidemiology of tonsillectomy and definition of childhood obesity; (2) Identify the perioperative problems of childhood obesity; (3) Discuss the unique problems associated with obesity and tonsillectomy; and (4) Describe post-tonsillectomy pain and why it's so hard to get it right.

AM, O, PED, PME

PBLD-SAT-05 Use of Sympathetic Ganglion Blockade to Treat Ventricular Tachydysrhythmias: A Discussion of Clinical Options

Co-Moderator: Daryl Smith, MD, Associate Professor and Chief, Acute Pain Service, University of Rochester Medical Center, Rochester, New York

Co-Moderator: Anil Arekapudi, MD, Assistant Professor, Department of Anesthesia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the neuroanatomy and physiology of sympathetic cardiac innervation; (2) Review techniques for placement of continuous ultrasound- and fluoroscopic-guided placement of continuous stellate ganglion and thoracic paravertebral catheters; (3) Describe the rationale for use of continuous sympathetic ganglion blocks (CSGB) as bridge therapy to surgical or chemical gangliolysis; (4) Discuss the use of CSGB as an adjunct to analgesia for ventricular tachydysrhythmia – related pain and anxiety syndromes; and (5) Discuss the impact of anti-coagulant therapy on the timing of block placement and removal.

CA, CC, EEP, NR, PME

PBLD-SAT-06 Lung Protective Ventilation in the OR: It Does Matter

Co-Moderator: Adam Evans, MD, MBA, Staff Intensivist, Cleveland Clinic Florida, Weston, Florida

Co-Moderator: Natalia Ivascu, MD, Associate Professor of Clinical Anesthesiology, Weill Cornell Medical College, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe lung protective ventilation and the research supporting its practice; (2) List the risk factors for development of perioperative lung injury for patients during surgery; and (3) Design an anesthetic plan to maximize lung protection during surgery.

AM, EEP, PS

REVIEW COURSE LECTURE 1:00 pm - 1:45 pm



RCL-01 Bad, Bad Blood

Presenter: Stephen D. Surgenor, MD, MS, Professor of Anesthesiology, Geisel School of Medicine, and of The Dartmouth Institute, Lebanon, New Hampshire; ASA Alternate Delegate (Ex-Officio), SOCCA

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the risk of anemia, versus the risks and benefits of RBC Transfusion; (2) Describe the indications for component transfusion therapy; and (3) Discuss the role for new anticoagulation reversal alternatives.

CA, CC, PS

1:00 pm - 2:30 pm

Scholars' Program Panel-01

Research in the 21st Century

Panelists:

■ **Choosing a Scientific Research Question that Inspires Passion and Creates Impact**

Judith Hellman, MD, Professor, Department of Anesthesiology and Perioperative Care, and Vice Chair for Research, University of California, San Francisco, San Francisco, California

■ **Opportunities on the Horizon: Current Trends in Academic Anesthesiology**

Alex Evers, MD, Henry E. Mallinckrodt Professor and Head, Department of Anesthesiology, Professor, Internal Medicine and Developmental Biology, Washington University in St. Louis, St. Louis, Missouri

■ **Collaborative Research – Tapping into the CTSA Network**

Jennifer Grandis, MD, American Cancer Society Professor; Associate Vice Chancellor, Clinical and Translational Research; Director, Clinical and Translational Science Institute; Professor, Department of Otolaryngology, University of California, San Francisco, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe choices for impactful (and inspiring) scientific research; (2) Discuss opportunities and current trends in academic anesthesia; and (3) Describe collaborative research and the CTSA Network.

EEP

PANELS 1:00 pm - 2:30 pm



P-04 Hot Topics in Pediatric Anesthesia

Moderator: Shobha Malviya, MD, FAAP, Professor of Anesthesiology, University of Michigan, Ann Arbor, Ann Arbor, Michigan; President, SPA

Panelists:

■ **Apnea and the Neonate: New Data That May Change Your Practice**

Mary Ellen McCann, MD, MPH, Senior Associate, Perioperative Anesthesia, Boston Children's Hospital; Associate Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts; Director, SPA

■ **The American College of Surgeons Standards for Pediatric Surgical Care: Coming to Your Neighborhood**

Constance Houck, MD, FAAP, Senior Associate, Perioperative Anesthesia, Clinical Director, Surgical Hospital Program, Boston Children's Hospital; Associate Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

■ **Neurotoxicity of Anesthetics in the Young: Will the PANDA Study Change the Way We Care for Kids?**

Lena Sun, MD, Emanuel M. Papper Professor of Pediatric Anesthesiology, Vice Chair, Department of Anesthesiology, Program Director, Pediatric Fellowship Training Program, Chief, Division of Pediatric Anesthesiology, Columbia University, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe new data available for apnea and the neonate; (2) Discuss the American College of Surgeons, Standards for Pediatric Surgical Care; and (3) Discuss neurotoxicity of anesthetics in the young.

AP, NR, PED, SM

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Visit the Apple Store or Google Play Store to download the IARS 2016 app today, using the free WiFi provided in the meeting spaces during the Annual Meeting.

Your username for the app is the email with which you registered for the Annual Meeting, and the password for all users is **IARS2016**.

PANELS 1:00 pm - 2:30 pm Continued



P-05 Leveraging Technology to Deliver Improved Perioperative Surgical Home Outcomes

Moderator: Brian S. Rothman, MD, Associate Professor of Anesthesiology, Medical Director of Perioperative Informatics and Customer Relationship Manager, Vanderbilt University Medical Center, Nashville, Tennessee; President, STA

Panelists:

■ **Big Data, Hospital Metrics and the Anesthesiologist's Role in Pay for Quality**

David L. Reich, MD, Horace W. Goldsmith Professor of Anesthesiology, President and Chief Operating Officer, The Mount Sinai Hospital, New York, New York; President, Mount Sinai Queens, Queens, New York

■ **Implementation of the Surgical Home and IT Implications**

Matthew D. McEvoy, MD, Associate Professor of Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

■ **Extending Beyond the Hospital – The Internet of Things and The Perioperative Surgical Home Model**

Jorge A. Galvez, MD, Assistant Professor, Anesthesiology and Critical Care, The Hospital of The University of Pennsylvania; Attending Anesthesiologist, The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss how to strategically analyze large perioperative and hospital data sets to identify means of improving metrics that affect hospital payment in current and future states; (2) Explain the current state of apps and wearable devices for remote monitoring and be able to discuss future directions in wearable technology and the internet of things in the context of the Perioperative Surgical Home; and (3) Describe the need for IT support for proper function of a Perioperative Surgical Home (PSH), understand the daily uses of IT for care planning and transitions in a PSH, and understand the weekly and monthly IT applications for Continuous Quality Improvement (CQI) in a PSH.

EEP, PA, TCSEM



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1:00 pm - 4:00 pm

IARS • AUA • SOCCA

SYMPOSIUM

State of the Art Review: Endothelial Glycocalyx in Anesthesia Practice and Critical Care Medicine

Moderator: Randal Dull, MD, PhD

Panelists:

■ **Endothelial and Glycocalyx Damage in Trauma – Drivers of Coagulopathy**

Sisse R. Ostrowski, MD, PhD, DMSc, Chief Physician, Associate Professor, Copenhagen University Hospital, Copenhagen, Denmark

■ **The Glycocalyx, Barrier Regulation and Resuscitation**

Randal Dull, MD, PhD, Professor & Vice Chair for Research, Department of Anesthesiology University of Illinois at Chicago, Chicago, Illinois

■ **Hyaluronan and Circulating Tumor Cell Metastatic Potential**

Hans Vink, PhD, Associate Professor of Vascular Physiology, Department of Physiology, Cardiovascular Research Institute Maastricht, Maastricht University, Maastricht, The Netherlands

■ **Glomerular Glycocalyx Degradation in Septic Kidney Injury**

Eric Schmidt, MD, Associate Professor of Medicine, Division of Pulmonary Sciences and Critical Care Medicine, University of Colorado School of Medicine Denver Health Medical Center,

■ **The Glycocalyx in Acute Lung Injury**

Jean-Francois Pittet, MD, David H. Chestnut Professor of Anesthesiology; Professor of Surgery; Investigator, Center for Lung Injury and Repair; Investigator, Alabama Resuscitation Center, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, *Anesthesia & Analgesia*; Editor-in-Chief, *A&A Case Reports*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the glycocalyx comprehensively; (2) Describe pathological effects of glycocalyx breakdown on organ specific injury, including the lung and kidney; (3) Describe how glycocalyx shedding contributes to systemic coagulopathy; (4) Discuss novel findings on the glycocalyx in peri-operative cancer metastasis.

AM, CA, CC, EP, PA, T

WORKSHOP 1:00 pm - 4:30 pm

W-01 Introductory Perioperative Point-of-Care Ultrasound Workshop

Workshop Leader:

Vincent W.S. Chan, MD, FRCPC, FRCA, Professor, Department of Anesthesiology, University of Toronto, Toronto Western Hospital, Toronto, Ontario, Canada

Panelists:

Carlos Brun, MD, Department of Veterans Affairs VA Palo Alto Health Care System, Attending & Intensivist, Anesthesiology and Perioperative Care Service, Co-Director, Medical Surgical Intensive Care Unit, Clinical Assistant Professor, Stanford University - Affiliated, Palo Alto, California

Jan Boublik, MD, PhD, Assistant Professor of Clinical Anesthesiology, New York University School of Medicine, New York, New York

Andrew Gray, MD, PhD, Professor of Clinical Anesthesia, Department of Anesthesia and Preoperative Care, University of California, San Francisco, San Francisco, California

Julin F. Tang, MD, MS, Professor of Clinical Anesthesia, Department of Anesthesia and Preoperative Care, University of California, San Francisco, San Francisco, California

Alberto Goffi, MD, Intensivist, Department of Medicine, Division of Respiriology (Critical Care), University Health Network; Assistant Professor, Interdepartmental Division of Critical Care Medicine and Department of Medicine, University of Toronto, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the basic principles of ultrasound imaging for airway and diaphragmatic assessment; (2) Apply ultrasound imaging to assess gastric content and volume; (3) Acquire hands-on lung imaging skills to evaluate hypoxemic states; and (4) Perform basic transthoracic echocardiography (TTE) examinations.

AM, CA, EEP



REVIEW COURSE LECTURE 2:00 pm - 2:45 pm



RCL-02 What's New in Perioperative Resuscitation

Presenter: Vivek Moitra, MD, Associate Professor of Anesthesiology, Columbia University College of Physicians and Surgeons, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the controversies of hemodynamic monitoring during resuscitation; (2) Discuss the use of point-of-care ultrasonography during the perioperative period; (3) Evaluate resuscitation guidelines in the context of perioperative sepsis management; and (4) Review the recent changes in ACLS guidelines.

CA, EEP, PA, T

PANELS 2:45 pm - 4:15 pm

P-06 The Perioperative Surgical Home: "Hear" Today, But Gone Tomorrow?

Moderator: Richard C. Prielipp, MD, MBA, FCCM, J. J. Buckley Professor of Anesthesiology and Critical Care, University of Minnesota, Minneapolis, Minnesota; Chair, Committee on Education and Training, APSF

Panelists:

■ The PSH: Pro-side

Daniel J. Cole, MD, Director, Gastroenterology Endoscopy Lab, Professor, Clinical Anesthesiology, University of California, Los Angeles, Los Angeles, California; President, ASA

Jean-Francois Pittet, MD, David H. Chestnut Professor of Anesthesiology; Professor of Surgery; Investigator, Center for Lung Injury and Repair; Investigator, Alabama Resuscitation Center, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, *Anesthesia & Analgesia*; Editor-in-Chief, *A&A Case Reports*

■ The PSH: Con-side

Mark J. Rice, MD, Professor and Division Chief, Adult Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

Douglas B. Coursin, MD, Professor of Anesthesiology and Internal Medicine, University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the rationale and history of the PSH; (2) Examine the best current example(s) of the PSH model, noting its strengths and weaknesses; (3) Identify the best (and most cost effective) care providers to manage and staff a PSH; (4) Discuss the educational needs of trainees as well as current practitioners to become successful PSH participants; (5) Discuss the role of the ASA, ABA, RRC, and SAAA in the future of the PSH; and (6) Explain the financial pro forma for a PSH, and the financial implications of these models.

EEP, PA

PANELS 2:45 pm - 4:15 pm Continued



P-07 Anesthesiology and the Global Surgical Crisis

Moderator: David Wilkinson, MBBS, FRCA, FCARCSI (Hon)

Panelists:

- **What Is the Scale of the Problem? The Findings of the Lancet Commission**
Wayne Morriss, MBChB, FANZCA, Anesthesiologist, Christchurch Hospital, Christchurch, New Zealand; Chair, Education Committee, WFSA
- **What is the World Health Organization Doing About the Problem?**
Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS, CCPE, Distinguished University Professor and Chair; Medical Director, MEDICI Centre, Anesthesia & Perioperative Medicine, London Health Sciences Centre, St. Joseph's Health Care London, and Western University, London, Ontario, Canada
- **How Can the WFSA and Anesthesiology Community Help?**
David Wilkinson, MBBS, FRCA, FCARCSI (Hon), Emeritus Consultant Anaesthetist, Boyle Department of Anaesthesia, St. Bartholomew's Hospital, London, United Kingdom; President, WFSA

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the lack of anesthesia and surgical care offered to 5 billion people in the world today; (2) Examine what data has been collected on this subject; and (3) Illustrate what solutions there are for these problems.

GH, PS



P-08 Sepsis: Current Controversies

Moderator: Daniel R. Brown, MD, PhD, FCCM, Professor of Anesthesiology, Mayo Clinic College of Medicine, Rochester, Minnesota; Treasurer and ASA Delegate, SOCCA

Panelists:

- **Choices for Volume Resuscitation**
Peggy White, MD, Assistant Professor of Medicine, Associate Program Director of the Multidisciplinary Adult Critical Care Medicine Fellowship, University of Florida College of Medicine, Gainesville, Florida
- **Monitoring Physiologic Parameters**
Miguel A. Cobas, MD, Associate Professor of Clinical Anesthesiology, Program Director, Critical Care Medicine Fellowship, University of Miami Health System, Miami, Florida; Secretary, SOCCA
- **Mechanical Ventilation Strategies**
Steven G. Venticinque, MD, Professor of Clinical Anesthesiology & Surgery, Program Director, Anesthesiology Critical Care Medicine Fellowship, Department of Anesthesiology, University of Texas Health Science Center at San Antonio, San Antonio, Texas

Learner Objectives: After participating in this activity, the learner will be able to: (1) Compare choices for volume resuscitation in the setting of severe sepsis; (2) Assess physiologic parameters useful in management of septic patients; and (3) Differentiate mechanical ventilation strategies for mechanical ventilation in the setting of acute lung injury.

AM, CA, CC, PS

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2:45 pm - 4:15 pm

Scholars' Program Small Group Sessions

Dynamic and Interactive Small Group Sessions

Small Group-01 A & B – Mock Study Section

Michael S. Avidan, MBBCh, Professor, Anesthesiology and Cardiothoracic Surgery, Director, INQUIRI, Division Chief, Cardiothoracic Anesthesiology and Cardiothoracic Intensive Care, Washington University in St. Louis, St. Louis, Missouri; Secretary, AUA

Small Group-02 A & B – Interactive Workshop on Designing A Clinical Trial

Anke Winter, MD, MSc, Clinical Epidemiologist and Assistant Professor, Division of Public Health Sciences, Department of Surgery, and Assistant Professor of Surgery and Anesthesiology, Washington University in St. Louis, St. Louis, Missouri

Small Group-03 A & B – Independent Discussion for Scientific Manuscript

Ben Julian A. Palanca, MD, PhD, MSc, Assistant Professor, Anesthesiology, Washington University in St. Louis, St. Louis, Missouri

Small Group-04 A & B – Grant Writing Session

Laure Aurelian, MSc, PhD, Senior Advisor for Faculty Development, Stanford University, Stanford, California; Professor of Pharmacology, Microbiology and Immunology, University of Maryland Medical School, Baltimore, Maryland; Reviewer, NIH Grants

Learner Objectives: After participating in this activity, the learner will be able to: (1) Analyze all stages and steps for a mock study section; (2) Review the necessary steps for designing a clinical trial; (3) Identify the elements required for a Scientific Manuscript; and (4) Describe the grant writing process.

EEP

REVIEW COURSE LECTURE 3:00 pm - 3:45 pm

RCL-03 Nomenclature for Post-Operative Cognitive Dysfunction (POCD)

Presenter: Roderic G. Eckenhoff, MD, Vice Chair for Research, Austin Lamont Professor of Anesthesiology and Critical Care, University of Pennsylvania, Philadelphia, Pennsylvania

Presenter: Lisbeth Evered, BSc, MBIostat, PhD, Associate Professor, NHMRC/ARC Dementia Research Fellow, Principal Research Fellow, Melbourne Medical School, University of Melbourne; Chair, Perioperative Cognition Professional Interest Area, ISTAART Alzheimer's Association (US), Scientific Head of Research, Department of Anaesthesia and Acute Pain Medicine, St. Vincent's Hospital Melbourne, Melbourne, Australia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the multiple neurocognitive disorders associated with the perioperative period; (2) Discuss the types of cognitive disorders that precede and follow anaesthesia and surgery; (3) Discuss where perioperative neurocognitive disorders fit within the DSM-5 and the NIA-AA classifications; and (4) Describe the benefits to patient safety and improved outcomes of employing a common nomenclature.

EP, NR, PA, PS

REVIEW COURSE LECTURE 4:15 pm - 5:00 pm

RCL-04 Morbid Obesity, Obesity Hypoventilation Syndrome, Overlap Syndrome: Birds of the Same Feather?

Presenter: Frances Chung, MBBS, FRCPC, Professor of Anesthesiology, University Health Network, University of Toronto, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate the clinical features of morbid obesity, obstructive sleep apnea, obesity hypoventilation syndrome, overlap syndrome; and (2) Develop a perioperative risk management plan to reduce risks in patients with morbid obesity, obstructive sleep apnea, obesity hypoventilation syndrome and overlap syndrome.

AM, O, PA, SM

Tabletop Exhibits

Visit the Tabletop Exhibits, located in the East Lounge on the Ballroom Level. Also, make sure to join us in the East Lounge for the Alignment Reception on Saturday, May 21, from 6:00 pm – 7:30 pm. For complete information on the Tabletop Exhibits, please refer to the **Exhibitor & Sponsor Guide** in your registration materials.

Tabletop Exhibit Hours:

Saturday, May 21	6:30 am – 1:00 pm
	4:00 pm – 7:30 pm
	Alignment Reception 6:00 pm – 7:30 pm
Sunday, May 22	6:30 am – 4:30 pm
Monday, May 23	6:30 am – 10:30 am

PANELS 4:30 pm - 6:00 pm

P-09 Mitochondrial Stress and Outcomes in Septic Patients

Moderator: Jeanine P. Wiener-Kronish, MD, Henry Isaiah Dorr Professor of Research and Teaching in Anaesthetics and Anaesthesia, Department of Anesthesia, Critical Care and Pain Medicine, Harvard Medical School; Anesthetist-in-Chief, Massachusetts General Hospital, Boston, Massachusetts; President-Elect, AUA

Panelists:

■ Mitochondrial Stress - What Is It?

Aranya Bagchi, MBBS, Instructor, Anaesthesia, Harvard Medical School; Staff Anesthesiologist and Intensivist, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

■ Mitochondrial Stress in Pseudomonas Infections

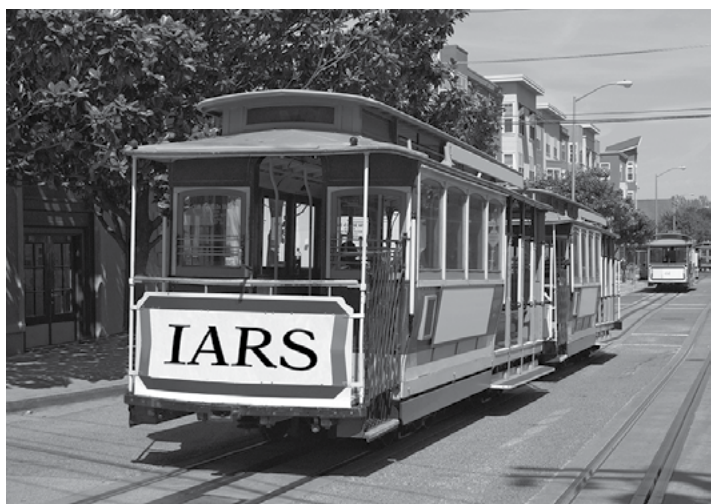
Teiji Sawa, MD, PhD, Chair and Professor of Anesthesia, Kyoto Prefectural University, Kyoto, Japan

■ Mechanisms in Mitochondrial Dysfunction in Sepsis and Burn Injury

Csaba Szabo, MD, PhD, Professor of Anesthesiology, University of Texas Medical Branch at Galveston, Galveston, Texas

Learner Objectives: After participating in this activity, the learner will be able to: (1) Summarize mitochondrial stress and how it helps protect the host; (2) Summarize the association between mitochondrial stress and patient outcomes in sepsis; (3) Summarize how the mitochondria and iron metabolism are linked; and (4) Summarize how bacteria usurp the mitochondrial stress responses in hosts.

CA, CC



P-10 Anesthesia & Analgesia Meet the Editors

Please join Drs. Jean-Francois Pittet, Editor-In-Chief, and Thomas R. Vetter, Deputy Editor-In-Chief, as well as several of the Journal's Executive Section Editors, for an informal and collegial dialogue about the recent changes to and the future direction of *Anesthesia & Analgesia* and *A&A Case Reports*. Potential authors and peer reviewers are especially encouraged to attend. This session is open to all. (*Note: CME is not offered for this session*)

Co-Moderator: Jean-Francois Pittet, MD, David H. Chestnut Professor of Anesthesiology; Professor of Surgery; Investigator, Center for Lung Injury and Repair; Investigator, Alabama Resuscitation Center, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, *Anesthesia & Analgesia*; Editor-in-Chief, *A&A Case Reports*

Co-Moderator: Thomas R. Vetter, MD, MPH, Maurice S. Albin Professor of Anesthesiology and Perioperative Medicine, Vice Chair and Director, Anesthesiology and Perioperative Medicine, Medical Director, Division of Pain Medicine, UAB Preoperative Assessment, Consultation and Treatment Clinic, Professor of Gerontology, Geriatrics, and Palliative Care, Professor of Pediatrics, Professor of Health Care Organization and Policy, University of Alabama at Birmingham, Birmingham, Alabama; Deputy Editor-in-Chief, *Anesthesia & Analgesia*; Deputy Editor-in-Chief *A&A Case Reports*

EEP



P-11 Perioperative Medicine and Critical Care Anesthesiology

Moderator: Brenda G. Fahy, MD, MCCM

■ Thinking Outside the Walls of the ICU

Brenda G. Fahy, MD, MCCM, Professor of Anesthesiology, Division Chief, Critical Care Medicine Anesthesiology, University of Florida College of Medicine, Gainesville, Florida; Immediate Past President, SOCCA

■ Care in the Continuum – Transition of Care

Aryeh Shander, MD, FCCM, FCCP, Chief, Department of Anesthesiology, Critical Care Medicine, Pain Management and Hyperbaric Medicine, Englewood Hospital and Medical Center, Englewood, New Jersey; Clinical Professor of Anesthesiology, Medicine and Surgery, Icahn School of Medicine at Mount Sinai, New York, New York; President, SOCCA

■ Added Value to the Health Care System

Ruben J. Azocar, MD, FCCM, Chairman, Anesthesiologist-in-Chief, Associate Professor, Department of Anesthesiology, Tufts University School of Medicine, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe roles for critical care anesthesiologists within the broader field of perioperative medicine; (2) Discuss enhancement of care opportunities with transitions of care; and (3) Discuss potential benefits and added value to health care systems of critical care anesthesiologists.

CC, EEP, PA, PS

4:15 pm - 5:00 pm

Scholars' Program Panel-02

Showcasing Career Trajectories of Young Anesthesiology Leaders

Panelists:

■ Building A Career in Perioperative Comparative Effectiveness Research

Mark D. Neuman, MD, MSc, Assistant Professor of Anesthesiology and Critical Care, Senior Fellow, Leonard Davis Institute for Health Economics, University of Pennsylvania; Attending Anesthesiologist, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania

■ How Alcohol and Hot Sauce Jump-Started My Career as an Academic Anesthesiologist

Eric R. Gross, MD, PhD, Assistant Professor of Anesthesiology, Perioperative and Pain Medicine, Member, Bio-X, Stanford University, Stanford, California

■ Building a Program of Research Using Big Data

May Hua, MD, MSc, Assistant Professor, Department of Anesthesiology, Faculty, Division of Critical Care Anesthesiology, Division of General Surgical and Transplant Anesthesia, Columbia University, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify opportunities available for anesthesiologists to perform translational research; (2) Discuss steps for starting a research lab; (3) Describe why the alcohol metabolism pathway is important for analgesia; (4) Discuss why the receptor activated by hot sauce is essential to limiting organ reperfusion injury; (5) Recognize the strengths and weaknesses of using secondary, large data sources; (6) Identify common sources of secondary data; and (7) Describe the concept of a research program.

EEP, PS



REVIEW COURSE LECTURE 5:15 pm - 6:00 pm

RCL-05 Cardiac Arrhythmias: Role of Anesthesia and Autonomics

Presenter: Aman Mahajan, MD, PhD, Ronald L. Katz Professor and Chair, Department of Anesthesiology and Perioperative Medicine, Professor of Anesthesiology and Bioengineering, Co-Director, Cardiac Arrhythmia Center, UCLA Neurocardiology Research Center, University of California, Los Angeles, Los Angeles, California; Councilor-at-Large, AUA

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the general mechanisms of cardiac arrhythmias; (2) Assess the impact of anesthesia and autonomics in modulating cardiac arrhythmias; and (3) Evaluate the role of anesthetic techniques in therapies for complex arrhythmias.

AP, CA, CC, PS

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Daily Schedule-At-A-Glance

6:00 am – 6:00 pm	Registration	8:00 am – 6:00 pm	Concurrent Sessions • Review Course Lectures • Panels • Workshops • Moderated Poster Discussion Sessions
6:30 am – 7:30 am	Problem-Based Learning Discussions (PBLDs)	10:30 am – 12:00 pm	Scholars' Abstract Awards Sessions
8:00 am – 10:00 am	Scholars' Program Panel-03 <i>Impact and Academic Success</i>	1:00 pm – 2:30 pm	Kosaka Abstract Awards Session
8:00 am – 11:00 am	International Science Symposium <i>The Promise of Stem Cell Therapies</i>	1:00 pm – 4:00 pm	Symposium <i>Are Most Published Findings in Anesthesiology Journals False?</i>
6:30 am – 4:30 pm • Tabletop Exhibits			

PROBLEM-BASED LEARNING DISCUSSIONS

6:30 am - 7:30 am

PBLD-SUN-01 How Big is Too Big for Outpatient Surgery?

Co-Moderator: Stephanie Jones, MD, Vice Chair of Education, Department of Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center; Associate Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts; Treasurer and Immediate Past President, ISPCOP

Co-Moderator: Cindy Ku, MD, Associate Program Director, Anesthesia Residency, Beth Israel Deaconess Medical Center; Instructor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify surgical procedures appropriate for the severely obese patient in a free-standing ASC; (2) Appraise strategies for multimodal, opioid-sparing analgesia in the severely obese patient; and (3) Discuss patient factors that affect the choice of surgical setting: free-standing ASC versus hospital-based outpatient center versus hospital operating room.

AP, O, PM, PS

PBLD-SUN-02 Idiopathic Fulminant Hepatic Failure After Simultaneous Kidney Pancreas Transplant

Co-Moderator: Stephen Aniskevich, MD, Assistant Professor and Chair, Hepatobiliary and Abdominal Organ Transplant Anesthesia, Mayo Clinic, Jacksonville, Florida

Co-Moderator: Sher-Lu Pai, MD, Assistant Professor and Clinical Director, Preoperative Evaluation Clinic, Mayo Clinic, Jacksonville, Florida

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the risk factors and causes of liver failure in patients undergoing general anesthesia; (2) Describe the evaluation of postoperative liver failure; and (3) Discuss the pathophysiology and debate the anesthesia management of subsequent surgeries in patients without the use of inhalational anesthetics.

AP, EP, L, PME, PS

PBLD-SUN-04 My Patient Has Obesity Hypoventilation Syndrome: Are They Suitable for Ambulatory Surgery?

Moderator: Jean Wong, MD, FRCPC, Associate Professor of Anesthesiology, University of Toronto; Toronto Western Hospital; University Health Network, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the features of Obesity Hypoventilation Syndrome; (2) Explain the difference between Obesity Hypoventilation Syndrome and Obstructive sleep apnea; (3) Describe how to screen for Obesity Hypoventilation Syndrome; and (4) Develop a perioperative risk management plan to reduce risks in patients with Obesity Hypoventilation Syndrome.

AM, AMB, O, PA, PS, SM

PBLD-SUN-05 Regional Anesthesia for Breast Cancer Surgery

Co-Moderator: Michael Andreae, MD, Associate Professor of Clinical Anesthesiology, Albert Einstein College of Medicine, Bronx, New York

Co-Moderator: Arthur Atchabahan, MD, Professor, Department of Anesthesiology, Perioperative Care, and Pain Medicine, New York University School of Medicine, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the underlying mechanism through which regional anesthesia and analgesia might prevent the development of persistent postoperative pain after breast surgery; (2) Review, discuss and evaluate the latest clinical evidence supporting the use of regional anesthesia for breast cancer surgery with a focus on long term outcomes, especially persistent postoperative pain; (3) Compare the sustained long-term benefits of regional anesthesia versus the small but real risk of nerve injury and pneumothorax for the different regional techniques, (4) Arrange and apply the scientific evidence to realistic perioperative scenarios and clinical pathways in collaboration with other stakeholders; (5) Propose alternative solutions for patients for whom regional anesthesia is not possible or feasible, for example the use of an intravenous perioperative lidocaine infusion.

OB, PM, PME, RA

PROBLEM-BASED LEARNING DISCUSSIONS

6:30 am - 7:30 am Continued

PBLD-SUN-06 Crossing the Translational Pre-Clinical to Clinical Bridge and Back: What Information Can We Derive from Pre-Clinical Data? Do These Have Clinical Implications?

Moderator: Manoj M. Lalu, MD, PhD, FRCPC, Clinical Scholar, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review common issues that interfere with preclinical to clinical translation; (2) Review how careful appraisal of preclinical/basic science data may prevent failed clinical translation; and (3) Review methods that should be implemented in the laboratory to decrease bias and ultimately decrease failed translation.

EEP, TCSEM

REVIEW COURSE LECTURE 8:00 am - 8:45 am

RCL-06 Don't Make Things Worse with Your Ventilator Settings!

Presenter: Peter Slinger, MD, FRCPC, Professor, Department of Anesthesia, University of Toronto, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify patients at increased risk for perioperative lung injury; (2) Develop an evidence-based intraoperative ventilation strategy to improve postoperative outcomes; and (3) Apply recent knowledge of perioperative fluid management and inflammation to decrease the incidence of post-operative respiratory complications in thoracic and non-thoracic surgery.

AM, CA, PA, PS

PANELS 8:00 am - 9:30 am



P-12 Advancing Perioperative Management of Traumatic Brain Injury

Moderator: Deepak Sharma, MBBS, MD, DM, Virginia & Prentice Bloedel Professor, Anesthesiology and Perioperative Neuroscience, and Division Chief, Neuroanesthesiology and Perioperative Neurosciences, and Program Director, Neuroanesthesiology Fellowship, University of Washington, Seattle, Washington; Director, SNACC

Panelists:

- **Developing a Systematic Approach to Traumatic Brain Injury Research: Establishing Priorities and Endpoints**
William L. Lanier Jr., MD, Professor of Anesthesiology, Editor-in-Chief of *Mayo Clinic Proceedings*, Mayo Clinic, Rochester, Minnesota
- **Translational Research in Traumatic Brain Injury: The Basic Scientist's Perspective**
Gary Fiskum, PhD, M. Jane Matjasko Professor for Research in Anesthesiology, Vice Chair, Research, University of Maryland Medical Center, Baltimore, Maryland
- **Translational Research in Traumatic Brain Injury: The Clinician's Perspective**
Monica Vavilala, MD, Professor, Anesthesiology & Pain Medicine; Professor, Pediatrics, Anesthesiology & Pain Medicine; Adjunct Professor, Neurological Surgery and Radiology, University of Washington; Director, Harborview Injury Prevention and Research Center, Seattle, Washington

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss a framework for translational research in Traumatic Brain Injury and appreciate the value of collaboration between clinician investigators and bench scientists on clinically translational research; (2) Identify clinical and research priorities in Traumatic Brain Injury care and the protocols, processes and perspectives required for interdisciplinary research; (3) Identify the current TBI preclinical research consortia and their potential impact on clinical TBI research; and (4) Describe the impact of adherence to guidelines for Traumatic Brain Injury care.

EEP, NR, PS, T

Anesthesia Subspecialty Key for Education Sessions

All education sessions at the Annual Meeting are coded by the anesthesia subspecialty for which they pertain.

AM = Airway Management	EP = Epidemiology	O = Obesity	PS = Patient Safety
AMB = Ambulatory Anesthesia	GA = Geriatric Anesthesia	OB = Obstetric Anesthesiology	RA = Regional Anesthesia
AP = Anesthetic Pharmacology	GH = Global Health	PA = Perioperative Anesthesia	SM = Sleep Medicine
CA = Cardiovascular Anesthesiology	L = Liver	PED = Pediatric Anesthesiology	TCSEM = Technology, Computing and Simulation, Equipment Monitoring
CC = Critical Care	NR = Neuroscience in Anesthesiology and Perioperative Medicine	PM = Pain Medicine	
EEP = Economics, Education and Policy		PME = Pain Mechanisms	T = Trauma

PANELS 8:00 am - 9:30 am Continued

European Society of Anaesthesiology



P-13 Perioperative Risk: The European View on Emerging Problems in the Preoperative Period

Co-Moderator: Keith A. (Tony) Jones, MD, Alfred Habeeb Endowed Professor and Chair, Department of Anesthesiology and Perioperative Medicine, University of Alabama at Birmingham, Birmingham, Alabama

Co-Moderator: Wolfgang Buhre, MD, PhD, Professor of Anesthesiology and Chair, Maastricht University, Maastricht, The Netherlands

Panelists:

- **Patient with Cardiovascular Disease**
Wolfgang Buhre, MD, PhD
- **Surgery, Inflammation and Perioperative Immune Status**
Andreas Hoeft, MD, PhD, Professor and Chair, Department of Anesthesiology and Intensive Care Medicine, University of Bonn, Bonn, Germany

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the European view on emerging problems in the preoperative period (2) Discuss perioperative risks and problems for patients with cardiovascular disease; and (3) Review surgery, inflammation and perioperative immune status.

CA, GH, PA

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8:00 am - 10:00 am

Scholars' Program Panel-03

Impact and Academic Success

Panelists:

- **Translational Research: From Impact Factor to Impact**
Monica Vavilala, MD, Professor, Anesthesiology & Pain Medicine; Professor, Pediatrics, Anesthesiology & Pain Medicine; Adjunct Professor, Neurological Surgery and Radiology, University of Washington; Director, Harborview Injury Prevention and Research Center, Seattle, Washington
- **Healthcare Policy and the Impact on Anesthesiology Research**
Karen B. Domino, MD, MPH, Professor and Vice Chair for Clinical Research, Department of Anesthesiology and Pain Medicine, Adjunct Professor, Neurological Surgery, University of Washington, Seattle, Washington; Alumni, Robert Wood Johnson Foundation Health Policy Fellow, House Committee on Ways and Means
- **Diversity Fosters Impact and Academic Success**
Nancy L. Ascher, MD, PhD, Professor and Chair, Department of Surgery, Isis Distinguished Professor in Transplantation, Leon Goldman, MD Distinguished Professor in Surgery, University of California, San Francisco, San Francisco, California; President, International Transplant Society
- **Building Dynamic Multidisciplinary Research**
Meghan Lane-Fall, MD, MSHP, Assistant Professor of Anesthesiology and Critical Care, Hospital of University of Pennsylvania; Core Faculty, Center for Health Care Improvements and Patient Safety, Department of Medicine, Senior Fellow, Leonard Davis Institute for Health Economics, University of Pennsylvania, Philadelphia, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Examine injury control efforts and effects in Washington State; (2) Discuss facilitating factors for a successful interdisciplinary research center; (3) Discuss strategies for facilitating anesthesiology engagement in injury research; (4) Describe healthcare policy impact on anesthesiology research (5) Describe fostering diversity to impact academic success; and (6) Describe how to build dynamic multidisciplinary research.

EEP

8:00 am – 11:00 am

International Science Symposium

The Promise of Stem Cell Therapies

Introduction:

Emery N. Brown, MD, PhD

Warren M. Zapol Professor of Anaesthesia, Harvard Medical School; Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital

Edward Hood Taplin, Professor of Medical Engineering, Institute for Medical Engineering and Science; Professor of Computational Neuroscience, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Boston, Massachusetts

Moderator:

Michael A. Matthay, MD, Professor of Medicine and Anesthesia; Senior Associate, Cardiovascular Research Institute; Director of the Critical Care Medicine Training in the Department of Medicine, Associate Director of the Intensive Care Unit, University of California, San Francisco, San Francisco, California

Panelists:

■ Stem Cell Therapy for Heart Disorder

Sunjay Kaushal, MD, PhD, Associate Professor, Division of Cardiac Surgery, Director of Pediatric and Adult Congenital Cardiac Surgery, University of Maryland Medical Center, Baltimore, Maryland

■ Stem Cell Therapy for Lung Disease

John G. Laffey, MD, MA, FCAI, FJFICMI, Anesthetist in Chief, St. Michael's Hospital; Scientist, Keenan Research Centre for Biomedical Sciences, St. Michael's Hospital; Co-Director, Critical Illness and Injury Research Centre, St. Michael's Hospital; Professor, Departments of Anesthesia and Physiology, University of Toronto, Toronto, Ontario, Canada

■ Stem Cell Based Therapies for Brain Repair

Cindi M. Morshead, PhD, Professor and Chair, Division of Anatomy, Department of Surgery, Rehabilitation Sciences Institute, Institute of Biomaterial and Biomedical Engineering, The Donnelly Centre, University of Toronto, Toronto, Ontario, Canada

AM, CA, NR

WORKSHOP 8:00 am - 11:00 am

W-02 Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks

Workshop Leader: Andrew D. Rosenberg, MD, Professor and Dorothy Reaves Spatz, MD Chair, Department of Anesthesiology, Perioperative Care and Pain Medicine, NYU Langone Medical Center, New York, New York

Panelists:

Robert A. Altman, MD, BS, Clinical Associate Professor, Department of Anesthesiology, Perioperative Care, and Pain Medicine, New York University Langone Medical Center, New York, New York

Michael Anderson, MD, Assistant Professor of Anesthesiology, Mount Sinai School of Medicine, New York, New York

Sudheer K. Jain, MD, Assistant Professor, Department of Anesthesiology, Perioperative Care, and Pain Medicine, New York University Langone Medical Center, New York, New York

Jung T. Kim, MD, Associate Professor, Department of Anesthesiology, Perioperative Care, and Pain Medicine, New York University Langone Medical Center, New York, New York

Sunmi Kim, MD, BS, Assistant Professor, Department of Anesthesiology, Perioperative Care, and Pain Medicine, New York University Langone Medical Center, New York, New York

Stephen D. Lucas, MD, Associate Professor of Anesthesiology, Chief, Division of Regional Anesthesiology and Perioperative Pain Medicine, Department of Anesthesiology; Medical Director, Pain Clinic, UF Health, University of Florida College of Medicine, Gainesville, Florida

Richa Wardhan, MBBS, Assistant Professor of Anesthesiology; Director, Regional Fellowship, Yale University School of Medicine, New Haven, Connecticut

Sylvia Wilson, MD, Assistant Professor, Division Chief of Regional and Orthopedic Anesthesia, Medical University of South Carolina, Charleston, South Carolina

During the Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks Workshop, emphasis will be placed on learning the basic terminology of ultrasound guided regional anesthesia and how to perform blocks utilizing this technique. The participant will have hands-on experience with simulators for upper extremity blocks, femoral nerve blocks, sciatic, popliteal and TAP blocks utilizing ultrasound simulators as well as live models for demonstration. Seating is limited to 50 attendees.

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain how to perform peripheral nerve blocks utilizing ultrasound guided and nerve simulator techniques; and (2) Describe how to perform blocks of the upper and lower extremity.

EEP, RA

REVIEW COURSE LECTURE 9:00 am - 9:45 am

RCL-07 Avoiding Transfusion: Managing and Preventing Perioperative Anemia

Presenter: Colleen Koch, MD, MS, MBA, FACC, Mark C. Rogers Professor and Chair, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins Medicine, Baltimore, Maryland

Learner Objectives: After participating in this activity, the learner will be able to: (1) Provide background and clinical implications of anemia in the perioperative setting; (2) Define hospital-acquired anemia and become aware of its prevalence and morbidity and resource utilization implications; (3) Recognize factors contributing to development of hospital-acquired anemia; and (4) Explain how process improvement initiatives, once implemented, may reduce its occurrence.

CA, PA, PS

REVIEW COURSE LECTURE 10:30 am - 11:15 am

RCL-08 Thoracic Epidural Anesthesia: Risks and Benefits

Presenter: Hugo K. Van Aken, MD, PhD, FRCA, FANZCA, Professor and Chair, Department of Anesthesiology and Intensive Care Medicine, Wilhelms-Universität Münster, Münster, Germany

Learner Objectives: After participating in this activity, the learner will be able to: (1) Underline the risks and benefits of thoracic epidural anesthesia (TEA); (2) Explain the differences between lumbar and thoracic epidural anesthesia; (3) Describe the effects of TEA on perioperative outcome where the best available estimation of the risk of epidural bleeding and infection is provided; and (4) Propose algorithms for safe application of TEA.

CA, AMB, PS

10:30 am - 12:00 pm Scholars' Abstract Awards Session

Stop by and listen to the best of abstract research presentations from the Scholar abstract finalists as they present their research for a \$1,000 prize and the honor of being named Best Scholar Abstract Award Winner.

Judges:

Michael S. Avidan, MBBCh, Washington University in St. Louis, St. Louis, Missouri

Michael A. Gropper, MD, PhD, University of California, San Francisco, San Francisco, California

Jeanine P. Wiener-Kronish, MD, Massachusetts General Hospital; Harvard Medical School, Boston, Massachusetts

EEP

PANELS 10:30 am - 12:00 pm



P-14 Advances in Trauma Anesthesia

Moderator: Carin Hagberg, MD, Professor and Chair, Department of Anesthesiology, University of Texas Health Science Center at Houston, Houston, Texas

Panelists:

■ Management of Traumatized Airway

Uday Jain, MD, PhD, Staff Anesthesiologist, Alameda Health System, Oakland, California

■ Evidence-Based Blood Management

Jean-Francois Pittet, MD, David H. Chestnut Professor of Anesthesiology; Professor of Surgery; Investigator, Center for Lung Injury and Repair; Investigator, Alabama Resuscitation Center, University of Alabama at Birmingham, Birmingham, Alabama; Editor-in-Chief, *Anesthesia & Analgesia*; Editor-in-Chief, *A&A Case Reports*

■ How Much Visco-Elasticity Does One Need?

Marc Steurer, MD, DESA, Associate Professor, Anesthesia, University of California, San Francisco, San Francisco, California; President, TAS

■ Reversing the Irreversible: Practical Approach to Management of Novel Anticoagulants in Trauma and Acute Care Surgery

Roman Dudaryk, MD, Assistant Professor of Clinical Anesthesiology, University of Miami, Miami, Florida

Learner Objectives: After participating in this activity, the learner will be able to: (1) Manage a traumatized airway; (2) Describe evidence-based administration of blood components to trauma patients; (3) Discuss the coagulopathy of trauma and its management; and (4) Describe emergent anesthesia care of patients receiving novel anticoagulants that do not have specific reversal agents.

AM, AP, CA, PS, T



PANELS 10:30 am - 12:00 pm Continued

SmartTots

P-15 Neurocognitive Changes Associated with Exposure to Anesthesia in Infants and Children: The Present and Future

Moderator: Santhanam Suresh, MD

Panelists:

- **SmartTots: Purpose, Objectives, and Accomplishments**
Santhanam Suresh, MD, Arthur C. King Professor & Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois
- **Preclinical Studies: Overview of Studies to Date, Key Findings, Take-Aways, and Future Plans**
Beverley A. Orser, MD, PhD, FRCPC, Fellow, Canadian Academy of Health Sciences Canada; Research Chair in Anesthesia, Professor of Anesthesia and Physiology, University of Toronto, Toronto, Ontario, Canada
- **Clinical Studies: Overview of Studies to Date, Key Findings, Take-Aways, and Future Plans**
Dean Andropoulos, MD, MHCM, Anesthesiologist-in-Chief, Texas Children's Hospital, Professor and Vice Chair, Department of Anesthesiology, Baylor College of Medicine, Houston, Texas

Learner Objectives: After participating in this activity, the learner will be able to: (1) Summarize the findings in animal models regarding neurocognitive changes associated with exposure to anesthetic and sedative drugs during the period of brain development; (2) Summarize the findings from human studies regarding exposure of the developing brain to anesthetic and sedative drugs; and (3) Describe the future direction for preclinical and clinical research.

PED, PS

REVIEW COURSE LECTURE 1:00 pm - 1:45 pm

RCL-09 Patient Selection for Ambulatory Surgery: Can Any Patient Be An Outpatient?

Presenter: **Girish Joshi, MBBS, MD, FFARCSI**, Professor of Anesthesiology and Pain Management, University of Texas Southwestern Medical School, Dallas, Texas

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the concerns of ambulatory surgery in challenging patients; (2) Explain the current science regarding patient selection for ambulatory surgery in free standing, office-based, and hospital based centers; (3) Describe the approach to determining patient selection for ambulatory surgery; and (4) Determine appropriate selection of adult patients with obesity, sleep apnea, cardiac disease and cardiac implantable electronic devices, scheduled for ambulatory surgery.

AMB, CA, O, PS, SM

1:00 pm - 2:30 pm Kosaka Abstract Awards Session

Join us at the Kosaka Abstract Awards Session where the top scoring abstracts submitted by Japanese researchers will compete against the top scoring matching topic abstracts submitted by their international colleagues.

Two final authors with abstracts judged best overall in Basic Science Research and Patient-Oriented Research will receive the prestigious Kosaka Award in the amount of \$1,000.

JUDGES

Co-Moderator: Keith A. (Tony) Jones, MD, The University of Alabama at Birmingham, Birmingham, Alabama

Co-Moderator: Makato Ozaki, MD, PhD, Tokyo Women's Medical University, Shinjuku, Tokyo, Japan

Beverley A. Orser, MD, PhD, FRCPC, University of Toronto, Toronto, Ontario, Canada

Christian P. Werner, MD, University Medical Center, Johannes Gutenberg-Universität, Mainz, Germany

The Kosaka Abstract Awards Session is supported by the Japan Society for Clinical Anesthesia (JSCA) and the International Anesthesia Research Society (IARS).



EEP, GH

PANELS 1:00 pm - 2:30 pm



P-16 More Safety Myths

Moderator: Richard C. Prielipp, MD, MBA, FCCM, J.J. Buckley Professor of Anesthesiology and Critical Care, University of Minnesota, Minneapolis, Minnesota; Chair, Committee on Education and Training, APSF

Panelists:

- **“You Must ‘Test’ the Airway Before Administration of NMB Drugs.”**
Robert C. Morell, MD, Editor, *APSF Newsletter*, Private Practice Anesthesiologist, Niceville, Florida
- **“The PAC Catheter is the Best Device to Guide Hemodynamic Management in Sick Patients.”**
Jeffrey S. Vender, MD, FCCP, FCCM, MBA, Professor and Harris Family Foundation Chairman, The University of Chicago Pritzker School of Medicine; Clinical Professor, Anesthesia and Critical Care, NorthShore University Health System, Chicago, Illinois
- **“One Must Always Be Equipped with a Traditional Laryngoscope and Skills for Tracheal Intubation.”**
Neal H. Cohen, MD, MS, Professor and Vice Dean, University of California, San Francisco, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss “conventional wisdom” and traditional routines within anesthesia practice can be erroneous (i.e., “myths”); (2) Describe an enhanced understanding of timing for induction drugs, especially NMB drugs; (3) Discuss the limitations and strengths of the PAC while caring for critically ill patients; and (4) Discuss the shortcomings of traditional laryngoscopes, and the rapid evolution of improved instruments like video-laryngoscopes.

AM, AP, EP, PS



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P-17 Hemostatic Strategies in Critical Care

Moderator: Kenichi Tanaka, MD, MSc

Panelists:

- **Indications for Platelet and Plasma Transfusion in the Intensive Care Unit**
Brittany Williams, MD, Cardiothoracic Anesthesiology Division, University of Maryland School of Medicine, Baltimore, Maryland
- **Use of Coagulation Factor Concentrate**
Kenichi Tanaka, MD, MSc, Professor of Anesthesiology, University of Maryland Medical Center, Baltimore, Maryland
- **Reversal Strategies for Direct Oral Anticoagulants**
Roman M. Sniecinski, MD, FASE, Associate Professor of Anesthesiology, Fellowship Program Director, Adult Cardiothoracic Anesthesiology, Emory University School of Medicine, Atlanta, Georgia
- **Management of Bleeding in Patients with ECMO and LVAD**
Michael Mazzeffi, MD, MPH, Assistant Professor of Anesthesiology, University of Maryland Medical Center, Baltimore, Maryland

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe indications for plasma and platelet transfusion in critically ill patients as well as the important associated risks; (2) Describe appropriate dosing of plasma; (3) Describe the differences between different PCC products, indications for use during the perioperative period, and advantages and disadvantages of using PCC compared to allogeneic plasma; (4) Describe the different classes of NOACs and outline specific reversal strategies for patients taking NOACs who have significant risk for bleeding or ongoing bleeding; and (5) Describe the pathophysiology of bleeding during mechanical circulatory support and outline specific treatment strategies as well as preventive strategies.

AP, CA, CC, PA, PM, PME, PS

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1:00 pm - 4:00 pm

SYMPOSIUM

Are Most Published Findings in Anesthesiology Journals False?

Moderator: Steven L. Shafer, MD

Panelists:

■ **Problems with the Medical Literature**

John P.A. Ioannidis, DSc, MD, C.F. Rehnberg Chair in Disease Prevention, Stanford Prevention Research Center at the School of Medicine; Professor of Health Research and Policy (Epidemiology), and, by Courtesy, of Statistics, School of Humanities and Sciences; Director of PhD Program in Epidemiology and Clinical Research; Co-Director, Meta-Research Innovation Center, Stanford University, Stanford, California

■ **High False Discovery Rates**

Steven L. Shafer, MD, Professor of Anesthesiology, Stanford University, Stanford, California; Immediate Past Editor-in-Chief, *Anesthesia & Analgesia*

■ **Affected Peer Review and Editorial Process**

James Eisenach, MD, Professor of Anesthesia, Wake Forest University, Wake Forest School of Medicine, Winston-Salem, North Carolina; Editor-in-Chief, *Anesthesiology*

■ **Statistical Analysis**

John Carlisle, MBChB, MRCP, FRCA, Consultant, Department of Anaesthesia, Torbay Hospital, Torquay, Devon, United Kingdom; Editor, *Anaesthesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the problems with medical literature; (2) Discuss the findings regarding high false discovery rates; (3) Describe the peer review and editorial process; and (4) Discuss statistics and statistical analysis.

EEP

WORKSHOP 1:00 pm - 4:00 pm

W-03 Resident Regional Ultrasound Guided Anesthesia Workshop

For Students, Residents and Fellows Only!

Don't miss this opportunity to gain hands-on experience from the experts in a regional ultrasound guided anesthesia workshop with live models and equipment available for demonstration.

Workshop Leaders:

Andrew D. Rosenberg, MD, Professor and Dorothy Reaves Spatz, MD Chair, Department of Anesthesiology, Perioperative Care and Pain Medicine, NYU Langone Medical Center, New York, New York

Santhanam Suresh, MD, Arthur C. King Professor & Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe basic ultrasound terminology; and (2) Explain ultrasounds and commonly performed regional anesthesia techniques.

EEP, RA

REVIEW COURSE LECTURE 2:00 pm - 2:45 pm

RCL-10 Obstetric Anesthesia Update: 5 Things You Always Wanted to Know About OB Anesthesia

Presenter: Robert R. Gaiser, MD, Professor of Anesthesiology and Critical Care, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania; Immediate Past President, SOAP

Learner Objectives: After participating in this activity, the learner will be able to: (1) Apply the new changes in management of epidural analgesia for labor; (2) Develop a plan for the management of the parturient who experiences cardiac arrest; (3) Interpret the new changes in neonatal resuscitation; and (4) Develop an approach for management of obstetric hemorrhage

AP, CA, OB

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PANELS 2:45 pm - 4:15 pm



P-18 Bariatric Anesthesia – Use of Evidence and Technology to Optimize Care

Moderator: Stephanie Jones, MD, Vice Chair of Education, Department of Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center; Associate Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts; Treasurer and Immediate Past President, ISPCOP

Panelists:

■ Airway Assessment and Prediction in Bariatric Patient: What Are the Data, What is New?

Michael Margaron, MBBS, MD, Consultant in Anaesthesia and Director of Critical Care, St. Richards Hospital, Chichester, West Sussex, United Kingdom

■ The Use of Ultrasound in Airway Assessment and Fasting Status

David Torres, MD, MSc, Anesthesiologist, Clinica Santa Maria; Assistant Professor and Director, Clinical Investigation, Universidad de Los Andes, Santiago, Chile; Board of Directors, ISPCOP

■ Obesity, Metabolic Syndrome and OSA – What We Know and What We Would Like to Know

Roman Schumann, MD, Vice-Chair for Academic Affairs, Department of Anesthesiology; Vice-Chair, Tufts University Health Sciences IRB; Medical Staff President; Professor, Tufts University School of Medicine, Medford, Massachusetts; President, ISPCOP

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss current evidence regarding prediction of airway difficulty in the bariatric population; (2) Apply ultrasound examination to the assessment of potential airway difficulty and gastric volume measurement in the preoperative bariatric patient; and (3) Describe the link between obesity, metabolic syndrome and OSA and identify current gaps in evidence for perioperative best practices.

AM, EEP, O, PA, TCSEM



P-19 Ambulatory Surgery: Patient Selection and Crisis Management

Moderator: Niraja Rajan, MD

Panelists:

■ Selection Criteria and Operative Setting for Ambulatory Surgery

BobbieJean Sweitzer, MD, FACP, Professor of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Past President, SPAQI

■ Anesthesia Frontiers: Identifying and Preparing for Trouble

Niraja Rajan, MD, Assistant Professor of Anesthesiology, Penn State Hershey Milton S. Hershey Medical Center (HOSC); Medical Director, Hershey Outpatient Surgical Center, Hershey, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Assess a patient in regard to triaging level of care required during anesthesia. Determine which location (HOPD, Free standing ASC or Office Based location) is best for patient acuity and co-morbidity; (2) Assess a facility for readiness for emergency response and what items should be considered “must haves” in different anesthetizing locations; (3) Assess facilities and patients for triage match for successful anesthetic care; and (4) Construct and execute meaningful drills for patient emergencies.

AMB, CC, PS, T

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Deadline to Submit White Papers: Friday, July 1, 2016

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For more information, visit www.iars.org.



PANELS 2:45 pm - 4:15 pm Continued



P-20 The American Board of Anesthesiology (ABA) Sessions Provide an Open Forum on MOCA 2.0™ and Primary Certification

Physician directors of the American Board of Anesthesiology (ABA) will lead two forums to provide information and answer attendees' questions on certification programs and requirements.

The two forums will be held in succession beginning at 2:45 pm and finishing at 3:45 pm:

- **Primary Certification: What You Need to Know (2:45 pm - 3:00 pm)**
- **MOCA 2.0™: What You Need to Know (3:00 pm - 3:45 pm)**

Led by ABA Director **Deborah J. Culley, MD**, the first session offers a question-and-answer format on the BASIC, ADVANCED and APPLIED staged examinations and the new ABA Assessment Center in Raleigh, North Carolina.

ABA Director **Thomas M. McLoughlin Jr., MD**, will lead an attendee-driven forum on MOCA 2.0™, the MOCA Minute™ pilot and the 2017 launch of MOCA 2.0™ (for subspecialties).

Panelists:

Deborah J. Culley, MD, Associate Professor, Anaesthesia, Harvard Medical School, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts; ABA Director

Thomas M. McLoughlin, Jr., MD, Chair of Anesthesiology, Lehigh Valley Health Network, Allentown, Pennsylvania; Professor of Surgery, Division of Surgical Anesthesiology, University of South Florida College of Medicine, Tampa, Florida; Clinical Professor, DeSales University, Center Valley, Pennsylvania; ABA Director

The ABA will also be exhibiting at the IARS. Please stop by the booth to get details about primary and subspecialty certification, as well as MOCA 2.0™ and MOCA Minute™. ABA staff can guide attendees through the ABA website and their portal account.

EPP, PS

REVIEW COURSE LECTURE 3:00 pm - 3:45 pm

RCL-11 Common Misunderstandings in Neuroanesthesia

Presenter: Gregory J. Crosby, MD, Associate Professor of Anaesthesia, Harvard Medical School, Brigham & Women's Hospital, Boston, Massachusetts

NR, PS

REVIEW COURSE LECTURE 4:15 pm - 5:00 pm

RCL-12 Value-Based Anesthesia Care: Evidence Reversal and Choosing Wisely Campaign

Presenter: Davy C.H. Cheng, MD, MSc, FRCP, FCAHS, CCPE, Distinguished University Professor & Chair / Chief Department of Anesthesia & Perioperative Medicine Professor, Division of Critical Care Medicine, Department of Medicine Chair, Evidence-based Perioperative Clinical Outcomes Research (EpiCOR), Western University, London, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Collect knowledge in value-based practice for quality outcomes and cost-effectiveness of care; (2) Discuss the current clinical practice reversal in anesthesia and perioperative medicine; (3) Apply Choosing Wisely Campaign and practice reversal with clinical examples in anesthesia, perioperative medicine, transfusion and critical care medicine.

CA, CC, EEP, PA, PS

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PANELS 4:30 pm - 6:00 pm

P-21 Role of Critical Care Anesthesiologists in Critical Response and Resuscitation

Moderator:

Keith A. (Tony) Jones, MD, Alfred Habeeb Endowed Professor and Chair, Department of Anesthesiology, University of Alabama at Birmingham, Birmingham, Alabama

Panelists:

- **Critical Response & Resuscitation Teams in the U.S.: Experience and Impact on Outcomes**
Robert Savage, MD, FACC, Vice Chair, Department of Cardiothoracic Anesthesia; Chair, Critical Response and Resuscitation Team, Cleveland Clinic, Cleveland, Ohio
- **Critical Response & Resuscitation: The European Experience**
Andreas Hoefft, MD, PhD, Professor and Chair, Department of Anesthesiology and Intensive Care Medicine, University of Bonn, Bonn, Germany
- **Critical Response & Resuscitation: Business Plan in the Era of Value Driven Healthcare**
Solomon Aronson, MD, MBA, FACC, FCCP, FAHA, FASE, Professor of Anesthesiology; Executive Vice Chair, Strategy and Finance, Duke University, Durham, North Carolina

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the importance of critical response & resuscitation in patient outcomes; (2) Recognize impact of in-hospital cardiopulmonary arrest (IH-CPA) on outcome metrics used by payers and regulatory oversight organizations in Europe and USA; (3) Identify opportunities for Critical Care Anesthesiologists in clinical leadership and administration of critical response and resuscitation teams; and (4) Develop a business plan enabling healthcare systems to put the best qualified skill-set at patient's bedside in setting of rapid deterioration or cardiopulmonary arrest.

AM, CA, CC, EEP, GH, PS, T

P-22 The Brain Is Not the Same After Anesthesia: The Young and the Aging Brain – Do They Respond the Same or Different?

Moderator: Ansgar Brambrink, PhD, MD, Professor, Anesthesiology and Perioperative Medicine, Oregon Health and Science University, Portland, Oregon

Panelists:

- CON: Developing and Aged Brains Respond Very Differently to Anesthetics**
Roderic G. Eckenhoff, MD, Vice Chair for Research, Austin Lamont Professor of Anesthesiology and Critical Care, University of Pennsylvania, Philadelphia, Pennsylvania
- CON: Repeated Anesthesia Alters Synaptic Plasticity in Developing but Not in Adult Brain**
Guang Yang, PhD, Assistant Professor, Department of Anesthesiology, Perioperative Care and Pain Medicine, New York University Langone Medical Center, New York, New York

PRO: Anesthesia Neurotoxicity in Young and Aging Brain: Common Versus Different Responses

Zhongcong Xie, MD, PhD, Professor, Anaesthesia, Harvard Medical School; Anesthesiologist, Massachusetts General Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Determine if there are shared mechanisms between anesthetic neurotoxicity in the developing versus the aging brain; (2) Assess if there are shared factors that determine acute or delayed vulnerability for anesthetic-induced injury between the young and the aging brain? (i.e. developmental origins of health & disease, epigenetic factors, etc.); and (3) Evaluate if there are shared biomarkers (CSF, serum, imaging, clinical, etc.) of anesthetic-induced injury in the young versus the aging brain.

AP, EP, GA, NR, PED, PS

Tabletop Exhibits

Visit the Tabletop Exhibits, located in the East Lounge on the Ballroom Level. Also, make sure to join us in the East Lounge for the Alignment Reception on Saturday, May 21, from 6:00 pm – 7:30 pm. For complete information on the Tabletop Exhibits, please refer to the **Exhibitor & Sponsor Guide** in your registration materials.

Tabletop Exhibit Hours:

Saturday, May 21	6:30 am – 1:00 pm
	4:00 pm – 7:30 pm
	Alignment Reception 6:00 pm – 7:30 pm
Sunday, May 22	6:30 am – 4:30 pm
Monday, May 23	6:30 am – 10:30 am



PANELS 4:30 pm - 6:00 pm Continued



Liver Intensive Care
Group of Europe

P-23 Non-Hepatic Surgery in Patients with Liver Disease

Moderator: Gebhard Wagener, MD

Panelists:

■ Pathophysiology and Preoperative Risk Assessment

Gebhard Wagener, MD, Associate Professor of Anesthesiology, Department of Anesthesiology, Columbia University, New York, New York

■ Intraoperative Management and Liver Protection

Beatrice Beck-Schimmer, MD, Professor of Anesthesiology, University Hospital Zurich, Zurich, Switzerland; Visiting Professor of Clinical Anesthesiology, University of Illinois at Chicago College of Medicine, Chicago, Illinois

■ Postoperative Complication and Acute Chronic Liver Failure

Jennifer Lai, MD, Assistant Professor, University of California, San Francisco, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Summarize the pathophysiology and the problems of liver cirrhosis; (2) Describe the clinical presentation of liver cirrhosis and the inherent risk of cirrhotic patients undergoing non-hepatic surgery; (3) Distinguish how to manage a patient with liver cirrhosis in the operating room including monitoring use of anesthetics and potential liver protective procedures; and (4) Examine the risk of acute on chronic liver failure after non-hepatic surgery including presentation and possible treatment options.

EP, L, PS

REVIEW COURSE LECTURE 5:15 pm - 6:00 pm

RCL-13 Enhanced Recovery After Surgery (ERAS)

Presenter: Tong Joo (TJ) Gan, MD, MHS, FRCA, Professor and Chairman, Department of Anesthesiology, Stony Brook University Hospital, Stony Brook, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the various elements of Enhanced Recovery After Surgery (ERAS); (2) Discuss the physiologic rationalization of the ERAS strategy; (3) Assess the impact of the ERAS protocol on improving patient outcomes; and (4) Discuss implementation of the ERAS program in hospitals.

AMB, EEP, PA, PS

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Annual Meeting Program Schedule • Saturday, May 21

SATURDAY, MAY 21 • IARS									
ALIGNED MEETING DAY & FOCUS ON CRITICAL CARE DAY									
TIMES	REVIEW COURSE LECTURES	PANELS	PBLDs	WORKSHOPS	SYMPOSIA	SCHOLARS' PROGRAM	MODERATED POSTER DISCUSSION SESSIONS	AWARDS SESSIONS	TIMES
6:00 am - 6:00 pm									6:00 am - 6:00 pm
6:30 am - 7:30 am									6:30 am - 7:30 am
7:30 am - 8:00 am									7:30 am - 8:00 am
8:00 am - 9:00 am									8:00 am - 9:00 am
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4:30 pm - 6:00 pm									4:30 pm - 6:00 pm
6:00 pm - 7:30 pm									6:00 pm - 7:30 pm
SATURDAY, MAY 21 • IARS									
ALIGNED MEETING DAY & FOCUS ON CRITICAL CARE DAY									
6:00 am - 6:00 pm									6:00 am - 6:00 pm
6:30 am - 7:30 am									6:30 am - 7:30 am
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8:00 am - 9:00 am									8:00 am - 9:00 am
9:00 am - 9:30 am									9:00 am - 9:30 am
9:30 am - 12:00 pm									9:30 am - 12:00 pm
12:00 pm - 2:00 pm									12:00 pm - 2:00 pm
2:00 pm - 4:15 pm									2:00 pm - 4:15 pm
4:00 pm - 4:30 pm									4:00 pm - 4:30 pm
4:30 pm - 6:00 pm									4:30 pm - 6:00 pm
6:00 pm - 7:30 pm									6:00 pm - 7:30 pm

6:00 am - 6:00 pm: Registration

6:30 am - 7:30 am: Continental Breakfast with Exhibitors

7:30 am - 8:00 am: Welcome and Opening Remarks

8:00 am - 9:00 am: T.H. Seldon Memorial Lecture: Reproducible Research: Impact in Evidence-Based Decision Making – John P.A. Ioannidis, DSc, MD

9:00 am - 9:30 am: Coffee with Exhibitors

Symposium:
9:30 am - 12:00 pm
AUA: Celebration of the Science of Anesthesiology: Protective Lung Ventilation in the Operating Room

PBLD-SAT-03:
12:00 pm - 1:00 pm
Please Mend My Broken Heart

PBLD-SAT-04:
12:00 pm - 1:00 pm
Tonilectomy in Obese Children: Fooks Dare Where Angels' Fear to Tread

Scholars' Panel-01:
1:00 pm - 2:30 pm
Research in the 21st Century

Scholars' Dynamic and Interactive Small Group Sessions:
2:45 pm - 4:15 pm
Small Group-01 A & B: Mock Study Section
Small Group-02 A & B: Interactive Workshops on Designing A Clinical Trial
Small Group-03 A & B: Independent Discussion for Scientific Manuscripts
Small Group-04 A & B: Grant Writing Session

Scholars' Panel-02:
4:15 pm - 5:00 pm
Showcasing Career Trajectories of Young Anesthesiology Leaders

Scholars' Program Reception
5:00 pm - 6:00 pm

Symposium:
1:00 pm - 4:00 pm
IARS, AUA & SOCCA Science Symposium: State of the Art Review: Endothelial Glycocalyx in Anesthesia Practice and Critical Care Medicine

W-01:
1:00 pm - 4:30 pm
Introductory Perioperative Point-of-Care Ultrasound Workshop

P-01:
9:30 am - 11:00 am
Trauma, Critical Care and Emergency Anesthesiology: A New Paradigm for the "Acute Care" Anesthesiologist?

P-02:
9:30 am - 11:00 am
ISAP: Can We Design Safer Anesthetics?

P-03:
9:30 am - 11:00 am
SOCCA: Optimizing the Patient During the Perioperative Period

P-04:
1:00 pm - 2:30 pm
SPA: Hot Topics on Pediatric Anesthesia

P-05:
1:00 pm - 2:30 pm
STA: Leveraging Technology to Deliver Improved Perioperative Surgical Home Outcomes

P-06:
2:45 pm - 4:15 pm
The Perioperative Surgical Home: "Hear" Today, But Gone Tomorrow!

P-07:
2:45 pm - 4:15 pm
WFSA: Anesthesiology and the Global Surgical Crisis

P-08:
2:45 pm - 4:15 pm
SOCCA: Sepsis: Current Controversies

P-09:
4:30 pm - 6:00 pm
Mitochondrial Stress and Outcomes in Septic Patients

P-10:
4:30 pm - 6:00 pm
Anesthesia & Analgesia Meet the Editors

P-11:
4:30 pm - 6:00 pm
SOCCA: Perioperative Medicine and Critical Care Anesthesiology

RCL-01:
1:00 pm - 1:45 pm
SOCCA: Bad, Bad Blood

RCL-02:
2:00 pm - 2:45 pm
SOCCA: What's New in Resuscitation

RCL-03:
3:00 pm - 3:45 pm
Nomenclature for Post-Operative Cognitive Dysfunction (POCD)

RCL-04:
4:15 pm - 5:00 pm
Morbid Obesity, Obesity Hypoventilation Syndrome, Overlap Syndrome: Birds of the Same Feather?

RCL-05:
5:15 pm - 6:00 pm
Cardiac Arrhythmias: Role of Anesthesia and Autonomics

PBLD-SAT-05:
12:00 pm - 1:00 pm
Use of Sympathetic Ganglion Blockade to Treat Ventricular Tachycardias: A Discussion of Clinical Options

PBLD-SAT-06:
12:00 pm - 1:00 pm
Ventilation in the Off-It Does Matter

9:30 am - 11:00 am
Moderated Poster Discussion Session

1:00 pm - 2:30 pm
Moderated Poster Discussion Session

2:45 pm - 4:15 pm
Moderated Poster Discussion Session

4:30 pm - 6:00 pm
Moderated Poster Discussion Session

4:00 pm - 4:30 pm
Coffee with Exhibitors

6:00 pm - 7:30 pm
Alignment Reception

Annual Meeting Program Schedule • Sunday, May 22

SUNDAY, MAY 22 • IARS									
TIMES	REVIEW COURSE LECTURES	PANELS	PBLDs	WORKSHOPS	SYMPOSIA	SCHOLARS' PROGRAM	MODERATED POSTER DISCUSSION SESSIONS	AWARDS SESSIONS	TIMES
6:00 am - 6:00 pm									6:00 am - 6:00 pm
6:30 am - 7:30 am			6:00 am - 6:00 pm: Registration						6:30 am - 7:30 am
6:30 am - 7:30 am	PBLD-SUN-01: 6:30 am - 7:30 am How Big is Too Big for Outpatient Surgery	PBLD-SUN-02: 6:30 am - 7:30 am Idiopathic Fulminant Hepatic Failure After Simultaneous Kidney/Pancreas Transplant?	PBLD-SUN-04: 6:30 am - 7:30 am My Patient Has Obesity Hypoventilation Syndrome: Are They Suitable for Ambulatory Surgery?			PBLD-SUN-05: 6:30 am - 7:30 am Regional Anesthesia for Breast Cancer	PBLD-SUN-06: 6:30 am - 7:30 am Crossing the Translational Pre-Clinical to Clinical Bridge and Back: What Information Can We Derive from Pre-Clinical Data? Do These Have Clinical Implications?		6:30 am - 7:30 am
8:00 am - 10:00 am	RCL-06: 8:00 am - 8:45 am Don't Make Things Worse With Your Ventilator Settings!	P-12: 8:00 am - 9:30 am SWACC: Advancing Perioperative Management of Traumatic Brain Injury		W-02: 8:00 am - 11:00 am Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks	International Science Symposium 8:00 am - 11:00 am The Promise of Stem Cell Therapies	Scholars' Panel-03: 8:00 am - 10:00 am Impact and Academic Success	8:00 am - 9:30 am Moderated Poster Discussion Session		8:00 am - 10:00 am
8:00 am - 10:00 am	RCL-07: 9:00 am - 9:45 am Avoiding Transition: Managing and Preventing Perioperative Anemia								
10:00 am - 10:30 am			10:00 am - 10:30 am: Coffee with Exhibitors						10:00 am - 10:30 am
10:30 am - 12:00 pm	RCL-08: 10:30 am - 11:15 am Thoracic Epidural Anesthesia: Risks and Benefits	P-14: 10:30 am - 12:00 pm TAS: Advances in Trauma Anesthesia				Scholars' Program Awards Session 10:30 am - 12:00 pm Scholars' Abstract Awards Session	10:30 am - 12:00 pm Moderated Poster Discussion Session		10:30 am - 12:00 pm
12:00 pm - 1:00 pm			12:00 pm - 1:00 pm: Lunch On Your Own						12:00 pm - 1:00 pm
1:00 pm - 4:15 pm	RCL-09: 1:00 pm - 1:45 pm Patient Selection for Ambulatory Surgery: Can Any Patient Be An Outpatient?	P-16: 1:00 pm - 2:30 pm AP5F: More Safety Myths		W-03: 1:00 pm - 4:30 pm Resident Regional Ultrasound Guided Anesthesia Workshop	Symposium 1:00 pm - 4:00 pm Are Most Published Findings in Anesthesiology Journals False?		1:00 pm - 2:30 pm Moderated Poster Discussion Session	Awards Session: 1:00 pm - 2:30 pm Kosaka Abstract Awards Session	1:00 pm - 4:15 pm
1:00 pm - 4:15 pm	RCL-10: 2:00 pm - 2:45 pm Obstetric Anesthesia Updates: 5 Things You Always Wanted to Know About OB Anesthesia	P-17: 1:00 pm - 2:30 pm Hemostatic Strategies in Critical Care							
1:00 pm - 4:15 pm	RCL-11: 3:00 pm - 3:45 pm Common Misunderstandings in Neuroanesthesia	P-19: 2:45 pm - 4:15 pm SAMBA: Ambulatory Surgery: Patient Selection and Crisis Management					2:45 pm - 4:15 pm Moderated Poster Discussion Session		
4:00 pm - 4:30 pm	RCL-12: 4:15 pm - 5:00 pm Value-Based Anesthesia Care: Evidence Reversal and Choosing Wisely Campaign	P-21: 4:30 pm - 6:00 pm Role of Critical Care Anesthesiologists in Critical Response and Resuscitation							4:00 pm - 4:30 pm
4:30 pm - 6:00 pm	RCL-13: 5:15 pm - 6:00 pm Enhanced Recovery After Surgery (ERAS)	P-22: 4:30 pm - 6:00 pm The Brain is Not the Same After Anesthesia: The Young and the Aging Brain - Do They Respond the Same or Different?	P-23: 4:30 pm - 6:00 pm LICAGE: Non-Hepatic Surgery in Patients with Liver Disease				4:30 pm - 6:00 pm Moderated Poster Discussion Session		4:30 pm - 6:00 pm

Annual Meeting Program Schedule • Monday, May 23 and Tuesday, May 24

MONDAY, MAY 23 • IARS							TUESDAY, MAY 24 • IARS									
TIMES	REVIEW COURSE LECTURES	PANELS	PBLDs	WORKSHOPS	SYMPOSIA	SCHOLARS' PROGRAM	MODERATED POSTER DISCUSSION SESSIONS	AWARDS SESSIONS	TIMES							
6:00 am - 6:00 pm: Registration																
6:30 am - 7:30 am: Continental Breakfast with Exhibitors																
6:00 am - 6:00 pm										6:00 am - 6:00 pm						
6:30 am - 7:30 am										6:30 am - 7:30 am						
6:30 am - 7:30 am	PBLD-MON-01: 6:30 am - 7:30 am "My Head Hurts Even When I'm Lying Down:" Cerebral Venous Thrombosis and Other Causes of Postpartum Headache	P-24: 8:00 am - 9:30 am SCK: Ultrasound Use in Hemodynamic Instability	P-25: 8:00 am - 9:30 am SQAP: Preoperative Assessment in 2016	PBLD-MON-02: 6:30 am - 7:30 am A 59-Year-Old Patient With Severe Hyponatremia Scheduled for Liver Transplantation	PBLD-MON-03: 6:30 am - 7:30 am Massive Transfusion Due to Placental Abruptio	PBLD-MON-04: 6:30 am - 7:30 am My Teenage Siblings are High and Hypoxic	PBLD-MON-05: 6:30 am - 7:30 am Pediatric Airway Difficulties: Effective Management Options (Session Also Available on May 21)	PBLD-MON-06: 6:30 am - 7:30 am What to Do When You Have a Neurologic Complication Associated with Your Regional Anesthetic	6:30 am - 7:30 am							
8:00 am - 10:00 am	RCL-14: 8:00 am - 8:45 am Safety and Efficacy of Regional Anesthesia in Children RCL-15: 9:00 am - 9:45 am Murder, Mystery, Mayhem: Trial Experiences - An Anesthetist's Perspective from the Witness Dock				W-04: 8:00 am - 11:00 am Perioperative TTE: It's for Everyone	Symposium 8:00 am - 11:00 am Anesthesia, Intensive Care, and the Aging Brain	8:00 am - 9:30 am Moderated Poster Discussion Session		8:00 am - 10:00 am							
10:00 am - 10:30 am										10:00 am - 10:30 am						
10:30 am - 12:00 pm	RCL-16: 10:30 am - 11:15 am Reading Your Mind: Monitoring The Brain Under Anesthesia	P-26: 10:30 am - 12:00 pm SOAP: Headaches on Labor and Delivery: Literally and Figuratively	P-27: 10:30 am - 12:00 pm The Future is Hard to Predict: Anesthesia Subspecialties in the Next Decade	P-28: 10:30 am - 12:00 pm International Opportunities in Global Anesthesia			10:30 am - 12:00 pm Moderated Poster Discussion Session	Awards Session: 10:30 am - 12:00 pm Best of Meeting Abstract Awards Session	10:30 am - 12:00 pm							
12:00 pm - 1:00 pm										12:00 pm - 1:00 pm						
1:00 pm - 1:00 pm: Lunch On Your Own																
1:00 pm - 4:15 pm	RCL-17: 1:00 pm - 1:45 pm Regional Anesthesia in Improving Outcomes RCL-18: 2:00 pm - 2:45 pm Point-of-Care Ultrasound in Perioperative Care RCL-19: 3:00 pm - 3:45 pm Hot Topics in Cardiac Anesthesia	P-29: 1:00 pm - 2:30 pm SASIK: Guideline on Preoperative Screening and Assessment of Patients with Sleep Disordered Breathing	P-30: 1:00 pm - 2:30 pm Healthcare and the Embedded Social Agenda: Real Examples of Good Ideas Gone Wrong			Symposium 1:00 pm - 4:00 pm New Thoughts on Predicting and Preventing Chronic Pain After Surgery	1:00 pm - 2:30 pm Moderated Poster Discussion Session		1:00 pm - 4:15 pm							
4:15 pm - 4:30 pm	RCL-20: 4:00 pm - 4:45 pm Anticoagulants & Procedural Anesthesia									4:15 pm - 4:30 pm						
4:30 pm - 6:00 pm	RCL-21: 5:00 pm - 5:45 pm 10 Things You Always Wanted to Know About Pediatric Anesthesia... and the 5 Things That Drive Me Nuts	P-31: 2:45 pm - 4:15 pm Opioid-Induced Hyperalgesia in Perioperative and Chronic Pain Management	P-32: 2:45 pm - 4:15 pm Challenges and Opportunities in International Collaboration in Database Research	P-33: 4:30 pm - 6:00 pm The ASRA Practice Advisory on Neurologic Complications Associated with Regional Anesthesia			4:30 pm - 6:00 pm Moderated Poster Discussion Session		4:30 pm - 6:00 pm							
4:15 pm - 4:30 pm: Break																
6:00 am - 12:00 pm										6:00 am - 12:00 pm						
6:30 am - 7:30 am										6:30 am - 7:30 am						
6:30 am - 7:30 am	PBLD-TUES-01: 6:30 am - 7:30 am Pediatric Spine Surgery: Using an Enhanced Recovery After Surgery (ERAS) Approach to Maximize Success in Challenging Psychiatric Disorders	P-34: 4:30 pm - 6:00 pm Re-Emergence of Xenon for Anesthesia and Critical Care	P-35: 4:30 pm - 6:00 pm The Emerging Role of Ketamine in Acute and Chronic Pain Management, Depression, and Beyond	PBLD-TUES-02: 6:30 am - 7:30 am Massive Obstetric Hemorrhage Blood Conservation Strategies, Novel Therapeutic Options, and Massive Transfusion Protocol	PBLD-TUES-03: 6:30 am - 7:30 am Must Demonstrate the Ability to Ventilate Before Administering Rocuronium?	PBLD-TUES-04: 6:30 am - 7:30 am Perioperative Analgesia: Are We Akin to Street Dealers?	4:30 pm - 6:00 pm Moderated Poster Discussion Session	PBLD-TUES-05: 6:30 am - 7:30 am Persistent Post-Surgical Pain and Prevention: Evidence-Based	6:30 am - 7:30 am							
8:00 am - 9:30 am	RCL-22: 8:00 am - 8:45 am Patient-Centered Outcomes: The New Paradigm in Perioperative Medicine	P-36: 8:00 am - 9:30 am ASRA: Post-Surgical Pain Syndromes: An Analysis and Treatment of the Problem Continuum	P-37: 8:00 am - 9:30 am Defining Value of Regional Anesthesia in the Context of Current Practice						8:00 am - 9:30 am							
9:30 am - 10:00 am										9:30 am - 10:00 am						
10:00 am - 12:00 pm	RCL-23: 10:00 am - 10:45 am Quality and Economics in Anesthesia: Let's Step Up to the Plate!	P-38: 10:00 am - 11:30 am SAM: Advanced Airway Management: Current State of the Art and Science	P-39: 10:00 am - 11:30 am Perioperative Clinical Decision Support: Improving Care of the Surgical Patient Through Informatics						10:00 am - 12:00 pm							
9:30 am - 10:00 am: Break																
6:00 am - 12:00 pm: Registration																
6:30 am - 7:30 am: Continental Breakfast																

Daily Schedule-At-A-Glance

6:00 am – 6:00 pm Registration

6:30 am – 7:30 am Problem-Based Learning Discussions (PBLDs)

8:00 am – 9:00 am **Symposium**
Anesthesia, Intensive Care, and The Aging Brain

8:00 am – 6:00 pm **Concurrent Sessions**

- Review Course Lectures • Panels
- Workshops • Moderated Poster Discussion Sessions

10:30 am – 12:00 pm Best of Meeting Abstract Awards Session

1:00 pm – 4:00 pm **Symposium**
New Thoughts on Predicting and Preventing Chronic Pain After Surgery

6:30 am – 10:30 am **Tabletop Exhibits**

PROBLEM-BASED LEARNING DISCUSSIONS

6:30 am - 7:30 am

PBLD-MON-01 “My Head Hurts Even When I Am Lying Down:” Cerebral Venous Thrombosis and Other Causes of Postpartum Headache

Moderator: Kallol Chaudhuri, MD, PhD, Professor, Associate Residency Program Director, Department of Anesthesiology, Texas Tech University Health Sciences Center, Lubbock, Texas

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe variety of factors associated with postpartum headache; (2) Explain the pathogenesis of cortical vein thrombosis; (3) Illustrate the differential diagnosis of postpartum headache; and (4) Discuss appropriate management of postpartum headache.

EP, NR, OB

PBLD-MON-02 A 59-Year-Old Patient with Severe Hyponatremia Scheduled for Liver Transplantation

Co-Moderator: Beatrice Beck-Schimmer, MD, Professor of Anesthesiology, University Hospital Zurich, Zurich, Switzerland; Visiting Professor of Clinical Anesthesiology, University of Illinois at Chicago College of Medicine, Chicago, Illinois

Co-Moderator: Gebhard Wagener, MD, Associate Professor of Anesthesiology, Department of Anesthesiology, Columbia University, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the perils of rapid perioperative correction of hyponatremia; (2) Define the complexity of matching recipients and donors for liver transplantation; (3) Explain different treatment option for perioperative electrolyte abnormalities such as hyponatremia and hyperkalemia; and (4) Demonstrate possible indication and practical use of intraoperative renal replacement therapy.

CA, CC, L, PA, PS

PBLD-MON-03 Massive Transfusion Due to Placental Abruption

Co-Moderator: Philip Boysen, MD, MBA, FACP, FCCP, FCCM, Staff Physician, Anesthesiology, Ochsner Clinic Foundation, Ochsner Health System, New Orleans, Louisiana; Emeritus Professor, Anesthesiology, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina

Co-Moderator: Roneisha McLendon, MD, Anesthesiologist, Ochsner Clinic Foundation, Ochsner Health System, New Orleans, Louisiana

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define massive transfusion and massive transfusion protocol; (2) Review available literature on obstetrical hemorrhage; (3) Discuss planning, preparation and resources to manage peri-partum hemorrhage; and (4) Evaluate the cost-benefit ratio of point of care testing: TEG, Rotem, Platelet Works, Verify Now.

CA, EEP, OB, PS

PBLD-MON-04 My Teenage Sickler is High and Hypoxic

Moderator: Debnath Chatterjee, MD, Associate Professor of Anesthesiology, Children’s Hospital Colorado; University of Colorado School of Medicine, Aurora, Colorado

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the clinical manifestations of acute cannabis (marijuana) intoxication; (2) Analyze the impact of legalization of recreational cannabis use in adolescents; (3) Discuss the indications for preoperative blood transfusion in patients with sickle cell disease; (4) Describe strategies to prevent sickling in patients with sickle cell disease; and (5) Summarize the management of acute chest syndrome.

AP, CA, EP

PROBLEM-BASED LEARNING DISCUSSIONS

6:30 am - 7:30 am Continued

PBLD-MON-05 Pediatric Difficult Airway: Effective Management Options*

Moderator: Narasimhan Jagannathan, MD, Attending Pediatric Anesthesiologist, Associate Chairman, Academic Affairs, Ann & Robert H. Lurie Children's Hospital of Chicago; Associate Professor of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe airway management principles unique to the pediatric airway, including the application of these principles using an evidenced-based practice in cases of children with difficult airways; (2) Discuss the various newer airway devices that are clinically effective in the management of the pediatric airway; and (3) Evaluate management options of the unanticipated difficult airway in a child after induction of anesthesia.

* Session also available on May 21

AM, PED, PME, PS

PBLD-MON-06 What to Do When You Have a Neurologic Complication Associated with Your Regional Anesthetic

Moderator: Joseph M. Neal, MD, Department of Anesthesiology, Virginia Mason Medical Center, Seattle, Washington

Learner Objectives: After participating in this activity, the learner will be able to: (1) Distinguish that most neurologic complications are surgery or patient-related; (2) Differentiate those conditions that demand immediate diagnosis and therapeutic intervention; and (3) Demonstrate knowledge of those factors that may predispose patients to neurologic injury.

AP, NR, PS, RA

REVIEW COURSE LECTURE 8:00 am - 8:45 am

RCL-14 Safety and Efficacy of Regional Anesthesia in Children

Presenter:

Santhanam Suresh, MD, Arthur C. King Professor & Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review common regional anesthetic techniques in children; (2) Review objective prospective data to substantiate safety of several techniques in children; and (3) Review technological improvements including ultrasound guidance in infants and children.

AP, EEP, PED, PS, RA, TCSEM

Anesthesia Subspecialty Key for Education Sessions

All education sessions at the Annual Meeting are coded by the anesthesia subspecialty for which they pertain.

AM = Airway Management	EP = Epidemiology	O = Obesity	PS = Patient Safety
AMB = Ambulatory Anesthesia	GA = Geriatric Anesthesia	OB = Obstetric Anesthesiology	RA = Regional Anesthesia
AP = Anesthetic Pharmacology	GH = Global Health	PA = Perioperative Anesthesia	SM = Sleep Medicine
CA = Cardiovascular Anesthesiology	L = Liver	PED = Pediatric Anesthesiology	TCSEM = Technology, Computing and Simulation, Equipment Monitoring
CC = Critical Care	NR = Neuroscience in Anesthesiology and Perioperative Medicine	PM = Pain Medicine	T = Trauma
EEP = Economics, Education and Policy		PME = Pain Mechanisms	

PANELS 8:00 am - 9:30 am



P-24 Ultrasound Use in Hemodynamic Instability

Moderator: Feroze Mahmood, MD, FASE, Director of Vascular Anesthesia and Perioperative Echocardiography, Associate Professor, Anaesthesia, Harvard Medical School; Anesthesiologist, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Panelists:

■ Role of Chest Ultrasound in Acute Hypotension

Sajid Shahul, MD, Associate Professor of Anesthesia, The University of Chicago, Chicago, Illinois

■ Ultrasound of the Abdomen in Acutely Hypotensive Patient

Andre Denault, MD, PhD, FRCPC, ABIM-CCM, FASE, Professor of Anesthesia, Université de Montréal; Cardiac Anesthesiologist, Montreal Heart Institute, Montreal, Quebec, Canada

■ Acute Hypotension – A Case-Based Approach Using Ultrasound

Achikam Oren-Grinberg, MD, Assistant Professor, Anaesthesia, Harvard Medical School; Director, Critical Care Echocardiography, Anesthesiologist, Beth Israel Deaconess Medical Center, Boston, Massachusetts

■ Transesophageal Echocardiography in an Acutely Hypotensive Patient

Anne D. Cherry, MD, Assistant Professor of Anesthesiology, Duke University, Durham, North Carolina

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the appropriate use of ultrasound as a diagnostic modality in the perioperative arena; (2) Discuss the clinical conditions that can cause hemodynamic instability and can be rapidly diagnosed with ultrasound; and (3) Explain basic echocardiographic and ultrasound views of chest and abdomen that are essential for these diagnoses.

CA, EEP, EP, PA



P-25 Preoperative Assessment in 2016

Moderator: Angela F. Edwards, MD, Associate Professor of Anesthesiology, Wake Forest School of Medicine; Section Head, Perioperative Medicine, Wake Forest Baptist Health, Winston-Salem, North Carolina; Secretary/Treasurer, SPAQI

Panelists:

■ Preoperative Exercise Testing and Prehabilitation

Lee A. Fleisher, MD, FACC, FAHA, Robert D. Dripps Professor and Chair, Department of Anesthesiology and Critical Care, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania; Governing Board, SPAQI; Immediate Past President, AUA

■ What's New in Preoperative Testing?

Deborah C. Richman, MBChB, FFA(SA), Associate Clinical Professor of Anesthesiology, Section Chief of Pre-Operative Services, Stony Brook Medicine, Stony Brook, New York; Vice President, SPAQI

■ Evaluating the Patient Allergic to Anesthesia and Other Adverse Anesthetic Reactions

Debra Pulley, MD, Associate Professor of Anesthesiology, Washington University in St. Louis, St. Louis, Missouri; President, SPAQI

■ Preoperative Evaluation and Management of Anemia

BobbieJean Sweitzer, MD, FACP, Professor of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois; Past President, SPAQI

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the value of cardiopulmonary exercise testing on perioperative and long-term outcomes and interventions to reduce risk in those patients with poor exercise tolerance; (2) Explain new tests and novel uses for old ones and be able to order appropriate and indicated preoperative tests; (3) Evaluate patients with allergies to anesthesia and help develop an appropriate anesthetic plan; and (4) Discuss the increased risk associated with anemia; the approach to evaluation of anemia and be able to identify strategies to treat anemia and methods to lower risk in these patients.

AP, CA, EP, PA, PS

Come Take Your Photo with the Golden Gate Bridge!

Stop and take your photo in front of the Golden Gate Bridge without leaving the meeting! Upload your photo to the IARS 2016 Annual Meeting app and earn badges. The Golden Gate Bridge photo op is located in the East Lounge, across from Continental 6-9, of the Ballroom Level of the hotel.



8:00 am - 11:00 am

SYMPOSIUM

Anesthesia, Intensive Care, and the Aging Brain

Moderator: Emery N. Brown, MD, PhD, Warren M. Zapol Professor of Anaesthesia, Harvard Medical School; Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Edward Hood Taplin Professor of Medical Engineering, Institute for Medical Engineering and Science; Professor of Computational Neuroscience, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Boston, Massachusetts

Panelists:

■ **The Neurophysiology of General Anesthetic Drugs in the Elderly: A Window into the Dynamics of the Aging Brain**

Patrick Purdon, PhD, Associate Bioengineer, Massachusetts General Hospital; Assistant Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

■ **Brain Anatomy, Physiology, and Behavior in Aging and Dementia**

Bradford C. Dickerson, MD, Associate Professor, Neurology, Harvard Medical School; Director of Neuroimaging Group in the Gerontology Research Unit, Massachusetts General Hospital, Boston, Massachusetts

■ **Delirium and Cognitive Dysfunction in Elderly Patients after Anesthesia and Intensive Care**

Björn Weiss, MD, Clinical Lecturer at Charité Department of Anesthesiology and Intensive Care Medicine

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the relationships between aging, dementia, delirium, and cognitive dysfunction after general anesthesia and intensive care; (2) Interpret the basic structural and functional changes that occur in the brain during aging and dementia; and (3) Describe age-dependent changes in anesthesia-induced brain activity in elderly patients, and how this activity relates to functional and structural changes in underlying brain circuits.

CC, GA, EP, NR

WORKSHOP 8:00 am - 11:00 am

W-04 Perioperative TTE: It's For Everyone Workshop

Workshop Leader: Josh Zimmerman, MD, FASE, Associate Professor and Medical Director, University of Utah Preoperative Clinic; Director, Perioperative Echocardiography Service, University of Utah, Salt Lake City, Utah

Workshop Presenters:

Bradley Coker, MD, Assistant Professor, University of Alabama at Birmingham, Birmingham, Alabama

Byron Ferguson, MD, Associate Professor, University of California, San Diego, San Diego, California

Jason Harig, MD, Assistant Professor (Clinical), University of Utah, Salt Lake City, Utah

Nick Markin, MD, Assistant Professor, University of Nebraska, Omaha, Nebraska

Candice Montzingo, MD, FASE, Associate Professor, University of Utah, Salt Lake City, Utah

Learner Objectives: After participating in this activity, the learner will be able to: (1) Illustrate the basic transthoracic and lung views; (2) Acquire the basic views on a live model; and (3) Describe the benefits of perioperative focused cardiac ultrasound.

GA, EEP, PA

REVIEW COURSE LECTURE 9:00 am - 9:45 am

RCL-15 Mystery, Murder, Mayhem: Trial Experiences – An Anesthetist's Perspective from the Witness Dock

Presenter: Steven L. Shafer, MD, Professor of Anesthesiology, Stanford University, Stanford, California; Immediate Past Editor-In-Chief, *Anesthesia & Analgesia*

AP, PM, PS



Internet Availability

Complimentary wireless internet is available in the conference and exhibit area and all IARS scheduled meeting rooms. Open your internet browser and choose the network labeled "Hilton Events." When prompted for an access code, enter "AM2016." Please no streaming or video downloads.

REVIEW COURSE LECTURE 10:30 am - 11:15 am

RCL-16 Reading Your Mind: Monitoring the Brain Under Anesthesia

Presenter: Michael S. Avidan, MBBCh, Professor, Anesthesiology and Cardiothoracic Surgery, Director, INQUIRI, Division Chief, Cardiothoracic Anesthesiology and Cardiothoracic Intensive Care, Washington University in St. Louis, St. Louis, Missouri; Secretary, AUA

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe how awareness might be generated and memories might be formed; (2) Describe evidence-based decision pathways to prevent intraoperative awareness; (3) Discuss the controversies surrounding over-and-under-dosing of anesthesia; and (4) Discuss key features and limitations of depth of anesthesia monitors.

AP, EEP, NR, PS

PANELS 10:30 am - 12:00 pm



P-26 Headaches on Labor and Delivery: Literally and Figuratively

Moderator: Robert R. Gaiser, MD

Panelists:

■ **Accidental Dural Puncture: What Next?**

Robert R. Gaiser, MD, Professor of Anesthesiology and Critical Care, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania; Immediate Past President, SOAP

■ **Obstetric Hemorrhage: Blood Loss Everywhere**

Jennifer Lucero, MD, Assistant Professor, Department of Anesthesia, University of California, San Francisco, San Francisco, California

■ **What Do You Mean I Can't Have an Epidural: Approach to the Patient in Which Epidural Analgesia is Contraindicated**

Mark Rollins, MD, PhD, Professor, Department of Anesthesia, University of California, San Francisco, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Develop a plan for the management of a patient who experienced accidental dural puncture; (2) Identify risk factors for obstetric hemorrhage; (3) Apply the Hemorrhage Bundle into practice; and (4) Develop a plan for the management of the patient in whom epidural analgesia is contraindicated.

AP, CC, OB, PS

P-27 The Future is Hard to Predict: Anesthesia Subspecialties in the Next Decade

Moderator: Ronald Pearl, MD, PhD

Panelists:

■ **The Future of Critical Care Medicine**

Ronald Pearl, MD, PhD, Dr. Richard K. and Erika N. Richards Professor and Chair, Department of Anesthesiology, Pain and Perioperative Medicine, Stanford University, Stanford, California

■ **The Future of Cardiothoracic Anesthesia**

Robert N. Sladen, MBBCh, FCCM, Allen Hyman Emeritus Professor of Critical Care Anesthesiology, Columbia University Medical Center and College of Physicians & Surgeons of Columbia University, New York, New York

■ **The Future of Pain Medicine**

James Rathmell, MD, Professor and Chair, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham & Women's Health Care; Vandam/Covino Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

■ **The Future of Pediatric Anesthesiology**

Santhanam Suresh, MD, Arthur C. King Professor & Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe future changes in patient care in four anesthesia subspecialties; (2) Determine additional skills which need to be acquired to provide patient care in different anesthesia subspecialties; (3) Explain changes in training in different anesthesia subspecialties; and (4) Determine current deficiencies in the learner's knowledge and skills in different anesthesia subspecialties.

CA, CC, EEP, PA, PED, PM, PME

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PANELS 10:30 am - 12:00 pm Continued

P-28 International Opportunities in Global Anesthesia

Moderator: Julia Sobol, MD, MPH, Assistant Professor of Anesthesiology, Columbia University, New York, New York

Panelists:

- **Short-Term Medical Missions: A Model for Sustainable Development?**
William Schechter, MD, MS, Professor of Anesthesiology and Pediatrics, Director, Pediatric Pain Medicine, Columbia University, New York, New York
- **Long-Term Medical Missions: MSF**
Deane Marchbein, MD, President, Medecins Sans Frontieres; Anesthesiologist, Massachusetts General Hospital, Boston, Massachusetts
- **Opportunities for Trainees: Anesthesia Global Health Fellowships**
Gunisha Kaur, MD, MA, Director of the Global Health Initiative, Program Director for the Anesthesia Global Health Fellowship, Weill Cornell Medical College, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Examine the extent and impact of the global burden of surgical disease worldwide, including the critical shortage of anesthesia providers in many low-income countries; (2) Discuss some reasons anesthesia providers might want to work internationally; and (3) Discuss different types of programs and opportunities available in global anesthesia.

EEP, EP, GH

10:30 am - 12:00 pm Best of Meeting Abstract Awards Session

Join your colleagues and cheer them on as they present their research and compete for top honors. The two abstracts judged best in Basic Science Research and Patient-Oriented Research will each be awarded a \$1,000 prize.

The best abstract presentation in Neuroscience will also be recognized by the Society for Neuroscience in Anesthesiology and Critical Care (SNACC) and will receive a \$500 award, complimentary one-year membership to SNACC and a complimentary registration to the SNACC 2016 Annual Meeting in Chicago, Illinois.

Judges:

Moderator: Keith A. (Tony) Jones, MD, University of Alabama at Birmingham, Birmingham, Alabama

Michael S. Avidan, MBBCh, Washington University School of Medicine at St. Louis, St. Louis, Missouri

Beverley A. Orser, MD, PhD, FRCPC, University of Toronto, Toronto, Ontario, Canada

Christian Werner, MD, University Medical Center, Johannes Gutenberg-Universität, Mainz, Germany

EEP

REVIEW COURSE LECTURE 1:00 pm - 1:45 pm

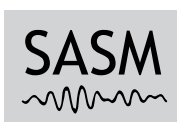
RCL-17 Regional Anesthesia in Improving Outcomes

Presenter: Colin McCartney, MBChB, PhD, FRCA, FCARCSI, FRCPC, Professor and Chair of Anesthesiology, University of Ottawa; Head of Anesthesiology, The Ottawa Hospital; Scientist, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain why regional anesthesia has positive benefits on outcomes; (2) Identify the populations who have most to benefit from regional anesthesia; and (3) Identify recent key studies in the literature informing us about impact of regional anesthesia on outcome.

GH, RA, PS

PANELS 1:00 pm - 2:30 pm



P-29 Society of Anesthesia and Sleep Medicine Guideline on Preoperative Screening and Assessment of Patients with Sleep Disordered Breathing

Moderator: Frances Chung, MBBS, FRCPC

Panelists:

- **Does A Diagnosis of Obstructive Sleep Apnea Change Outcomes?**
Frances Chung, MBBS, FRCPC, Professor of Anesthesiology, University Health Network, University of Toronto, Toronto, Ontario, Canada
- **Preoperative Screening for Obstructive Sleep Apnea**
Satya Krishna Ramachandran, MD, FRCA, Assistant Professor, University of Michigan, Ann Arbor, Ann Arbor, Michigan; Chair, Newsletter Subcommittee, SASM
- **Best Perioperative Practice for Surgical Patients with Obstructive Sleep Apnea**
Dennis Auckley, MD, Associate Professor and Director, Division of Pulmonary, Critical Care and Sleep Medicine, MetroHealth Medical Center, Case Western Reserve University, Cleveland, Ohio; Chair, Clinical Committee and Board Member, SASM

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain that a diagnosis of OSA changes outcome; (2) Identify the different ways in preoperative screening for patients with sleep apnea; and (3) Evaluate the best peri-operative practices for surgical patients with suspected or known OSA.

PA, PS, SM

PANELS 1:00 pm - 2:30 pm Continued

P-30 Healthcare and the Embedded Social Agenda: Real Examples of Good Ideas Gone Wrong

Moderator: Mark Nunnally, MD, FCCM, Director, Adult Critical Care Services, New York University Langone Medical Center, New York, New York

Panelists:

■ The Social Construction of Healthcare

Michael O'Connor, MD, Professor, Department of Anesthesia and Critical Care; Section Head, Pulmonary and Critical Care Medicine, The University of Chicago, Chicago, Illinois

■ Guidelines and Protocols

Brian Kavanagh, MBBSc, MRCP(I), FRCP(C), FFARCS(I) Hons, Chair, Department of Anesthesia, Professor of Anesthesia, Medicine and Physiology, University of Toronto, Dr. Geoffrey Baker Chair in Critical Care Research, Hospital for Sick Children, Toronto, Ontario, Canada

■ Quality Metrics

Avery Tung, MD, Professor of Anesthesia and Critical Care, The University of Chicago, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the secondary objectives of many common performance improvement initiatives; (2) Discuss the social aspects of healthcare management; and (3) Appraise the value and embedded costs of quality improvement projects.

EEP, PS

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1:00 pm - 4:00 pm

SYMPOSIUM

New Thoughts on Predicting and Preventing Chronic Pain after Surgery

Moderator: James Eisenach, MD

Panelists:

■ Rethinking What We Mean By Chronic Pain After Surgery

James Eisenach, MD, Professor of Anesthesia, Wake Forest University, Wake Forest School of Medicine, Winston-Salem, North Carolina; Editor-in-Chief, *Anesthesiology*

■ The Centralized Pain Phenotype: A Mechanistic Rationale for Patient Selection and Personalized Postoperative Analgesia

Chad Brummett, MD, Assistant Professor, Anesthesiology and Pain Research, Director, Division of Pain Research, Director, Clinical Research, Department of Anesthesiology, Associate Chair, Faculty Affairs, University of Michigan, Ann Arbor, Ann Arbor, Michigan

■ An Immune Biomarker for Slow Recovery and How to Modify Risk in This Group

Martin Angst, MD, Founder and Director, Human Pain Laboratory, Associate Professor of Anesthesiology, Perioperative and Pain Medicine, Stanford University, Stanford, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe to patients the difference between speed of recovery and chronic pain after surgery; (2) Identify by simple medical history and physical exam, patients at high risk for slow recovery from pain after surgery; and (3) Describe to anesthesia and surgical colleagues novel biomarkers to predict slow recovery from surgery that could lead to novel future treatments.

EP, PM, PME, PS

REVIEW COURSE LECTURE 2:00 pm - 2:45 pm

RCL-18 Point-of-Care Ultrasound in Perioperative Care

Presenter: Vincent W.S. Chan, MD, FRCPC, FRCA, Professor, Department of Anesthesiology, University of Toronto; Toronto Western Hospital, Toronto, Ontario, Canada

Presenter: James A. DiNardo, MD, Senior Associate in Cardiac Anesthesia; Chief, Division of Cardiac Anesthesia, Boston Children's Hospital; Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Apply ultrasound imaging to assess gastric content and volume; (2) Define the basis of optic nerve sheath diameter measurement for raised intracranial pressure monitoring; (3) Describe how to perform ultrasound imaging for airway & diaphragmatic assessment; (4) Assess hypoxemic states with lung ultrasound; and (5) Describe the basic transthoracic echocardiography views to evaluate the causes of cardiovascular instability.

AM, CA, EEP, NR

PANELS 2:45 pm - 4:15 pm

P-31 Opioid-Induced Hyperalgesia in Perioperative and Chronic Pain Management

Moderator: Lucy Chen, MD

Panelists:

■ **Clinical Data on Opioid-Induced Hyperalgesia**

Lucy Chen, MD, Associate Professor, Critical Care and Pain Medicine, Massachusetts General Hospital; Associate Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

■ **Mechanisms of Opioid-Induced Hyperalgesia**

Jianren Mao, MD, PhD, Richard J. Ritz Professor of Anaesthesia Research, Harvard Medical School; Chief, Division of Pain Medicine, Vice Chair for Research, Director, MGH Center for Translational Pain Research, Massachusetts General Hospital, Boston, Massachusetts

■ **Risk Assessment and Management of Opioid Therapy**

Ronald Kulich, PhD, Lecturer, Anaesthesia, Harvard Medical School; Staff Psychologist, Department of Psychiatry, Division of Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the current research data on opioid-induced hyperalgesia; (2) Discuss the neurobiological mechanism of opioid-induced hyperalgesia and its implication in perioperative and chronic pain management; and (3) Assess current opioid risk management strategies in the context of opioid-induced hyperalgesia, tolerance, and addiction-like behaviors.

AP, EEP, NR, PA, PM, PME

P-32 Challenges and Opportunities of International Collaboration in Database Research

Moderator: Sachin Kheterpal, MD, Associate Chair for Clinical Affairs and Quality and Assistant Professor of Anesthesiology, Department of Surgery, University of Michigan, Ann Arbor, Ann Arbor, Michigan

Panelists:

■ **Creating a Culture of Collaboration**

Robert Schonberger, MD, Assistant Professor, Yale University, New Haven, Connecticut

■ **Data Quality Assurance**

Amy Shanks, PhD, Associate Research Scientist, University of Michigan, Ann Arbor, Ann Arbor, Michigan

■ **Successful International Collaboration**

Wilton van Klei, MD, PhD, Professor and Chair, Department of Anesthesiology; Director of Research and Education, Division of Anesthesiology, Intensive Care and Emergency Medicine, University Medical Center Utrecht, Utrecht, The Netherlands

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain methods to identify and correct data quality issues in merging data from different centers; (2) Explain how to create a culture of collaboration in order to achieve successes (in terms of improved quality of care or research output); and (3) Explain the requirements of participating in (international) collaboration in multicenter data sharing initiatives.

EEP, GH, PS, TCSEM

REVIEW COURSE LECTURE 3:00 pm - 3:45 pm

RCL-19 Hot Topics in Cardiac Anesthesia

Presenter: James Ramsay, MD, Professor, Department of Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the potential anesthetic options and implications of interventional rather than surgical valvular interventions; (2) Apply new cardiovascular pharmacologic strategies to support cardiac function and vascular tone; and (3) Compare and evaluate anesthetic implications related to placement of new cardiac support devices.

AP, CC, CA

REVIEW COURSE LECTURE 4:00 pm - 4:45 pm

RCL-20 Anticoagulants & Procedural Anesthesia

Presenter: Terese T. Horlocker, MD, Professor, Anesthesiology and Orthopedics, Mayo Clinic, Rochester, Minnesota

AP, EEP, PA

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PANELS 4:30 pm - 6:00 pm

P-33 Re-emergence of Xenon for Anesthesia and Critical Care

Moderator: Roderic G. Eckenhoff, MD, Vice Chair for Research, Austin Lamont Professor of Anesthesiology and Critical Care, University of Pennsylvania, Philadelphia, Pennsylvania

Panelists:

- **Why Xenon is Both Chemically Inert and Biologically Active**
Daqing Ma, MD, PhD, FRCA, Macintosh Professor, Anaesthetics, Pain Medicine & Intensive Care, Imperial College London, London, United Kingdom
- **Breathing Life into Clinical Trials: Pre-Clinical Investigations with Xenon**
David S. Warner, MD, Professor, Department of Anesthesiology, Duke University Medical Center, Durham, North Carolina
- **Xenon: No Stranger to Improving Clinical Outcomes**
Robert D. Sanders, MBBS, PhD, FRCA, Assistant Professor, Department of Anesthesiology, University of Wisconsin, Madison, Madison, Wisconsin

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the pharmacologic foundations for Xenon's use as a general anesthetic; (2) Explain comparative effectiveness and safety of Xenon for general anesthesia; (3) Explain Xenon's effect on the pathogenic mechanisms that cause acute organ injury; (4) Explain comparative effectiveness and safety of Xenon to prevent ongoing acute neurological injury; and (5) Explain future applications of Xenon in pediatric anesthesia and critical care settings to improve clinical outcomes.

AP, CA, CC, NR, PED, PS

P-34 The ASRA Practice Advisory on Neurologic Complications Associated with Regional Anesthesia

Moderator: Joseph M. Neal, MD

Panelists:

- **Neuraxis Injury**
Joseph M. Neal, MD, Department of Anesthesiology, Virginia Mason Medical Center, Seattle, Washington
- **Peripheral Nerve Injury**
James R. Hebl, MD, Professor of Anesthesiology and Vice Chair, Department of Anesthesiology, Mayo Clinic, Rochester, Minnesota
- **Pre-existing Neurologic Disease**
Sandra L. Kopp, MD, Associate Professor, Mayo Clinic, Rochester, Minnesota

Learner Objectives: After participating in this activity, the learner will be able to: (1) Distinguish emerging concerns related to neuraxial complications of regional anesthesia; (2) Differentiate those pre-existing neurologic conditions that may be contraindications to regional anesthetic techniques; (3) Discuss developing knowledge regarding the pathophysiology of peripheral nerve injury associated with regional anesthesia; and (4) Summarize appropriate diagnostic and therapeutic interventions when these complications occur.

EP, NR, RA

P-35 The Emerging Role for Ketamine in Acute and Chronic Pain Management, Depression, and Beyond

Moderator: Steven Porter, MD

Panelists:

- **Evidence-Based Ketamine for Acute Pain**
Steven Porter, MD, Assistant Professor of Anesthesiology, Mayo Clinic, Jacksonville, Florida
- **Ketamine Infusions: Logistics and Safety**
Eugene Viscusi, MD, Professor of Anesthesiology, Director of Acute Pain Management, Department of Anesthesiology, Thomas Jefferson University, Philadelphia, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the pharmacological basis for the transition from the use of Ketamine in anesthesia to its use in pain and depression; (2) Determine the clinical potential for the use of new medications based upon Ketamine metabolites in the treatment of pain and depression; (3) Identify patient populations with evidence to support the use of perioperative Ketamine for acute post-operative analgesia; and (4) Discuss evidence based guidelines to safely deliver Ketamine in the hospital setting for inpatient infusions.

AP, EEP, NR, PA, PM, PME, PS

REVIEW COURSE LECTURE 5:00 pm - 5:45 pm

RCL-21 10 Things You Always Wanted to Know About Pediatric Anesthesia and The 5 Things That Drive Me Nuts!

Presenter: James A. DiNardo, MD, Senior Associate in Cardiac Anesthesia; Chief, Division of Cardiac Anesthesia, Boston Children's Hospital; Professor, Anaesthesia, Harvard Medical School, Boston, Massachusetts

Presenter: Myron Yaster, MD, Richard J. Traystman Distinguished Professor, Department of Anesthesiology, Critical Care Medicine and Pediatrics, Johns Hopkins Medicine, Baltimore, Maryland

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the 10 under-appreciated, clinically relevant facts about pediatric anesthesia; and (2) Describe the 5 under-appreciated, clinically relevant misconceptions about pediatric anesthesia.

PED, PS

Daily Schedule-At-A-Glance

6:00 am – 12:00 pm Registration

6:30 am – 7:30 am Problem-Based Learning Discussions (PBLDs)

8:00 am – 11:45 am

Concurrent Sessions

- Review Course Lectures
- Panels

PROBLEM-BASED LEARNING DISCUSSIONS

6:30 am - 7:30 am

PBLD-TUES-01 Pediatric Spine Surgery: Using An Enhanced Recovery After Surgery (ERAS) Approach to Maximize Success in Challenging Psychiatric Disorders

Co-Moderator: Patrick K. Birmingham, MD, FAAP, Division Head of Pain Medicine; Executive Vice Chairman, Department of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Co-Moderator: Jeremy D. Deer, MD, Attending Physician, Anesthesiology, Director of Education, Ann & Robert H. Lurie Children's Hospital of Chicago; Instructor in Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the role of psychiatric disorders and the benefit that a multimodal approach to anesthetic care provides; (2) Describe various pharmacologic and non-pharmacologic approaches in anesthetic management during complex spine surgery; (3) Describe the benefits of neuraxial anesthetic techniques in spine surgery for enhanced recovery; and (4) Describe a care team approach to successful perioperative management.

AP, AMB, NR, PA, PED, PS

PBLD-TUES-02 Massive Obstetric Hemorrhage, Blood Conservation Strategies, Novel Therapeutic Options, and Massive Transfusion Protocol

Moderator: Ashutosh Wali, MBBS, MD, FFARCSI, Associate Professor and Director, Advanced Airway Management; Director, Division of Obstetric/Gynecologic Anesthesiology, Baylor College of Medicine, Houston, Texas; President, SAM

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify common causes of antepartum and postpartum hemorrhage; (2) Review drug therapy for management of uterine atony; (3) Discuss blood conservation techniques for massive obstetric hemorrhage; and (4) Describe the role of Recombinant Factor VIIa and Massive Transfusion Protocol.

AP, CA, OB

PBLD-TUES-03 Must I Demonstrate the Ability to Ventilate Before Administering Rocuronium?

Moderator: Cynthia A. Lien, MD, Professor of Anesthesiology, Weill Cornell Medical Center, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain factors that contribute to difficult mask ventilation; (2) Construct the mechanics of bag-mask ventilation; (3) Demonstrate use of airway devices to facilitate ventilation appropriately; and (4) Discuss the risks associated with administration of neuromuscular blocking agents during induction of anesthesia.

AM, AP, NR

PBLD-TUES-04 Perioperative Analgesia: Are We Akin to Street Dealers?

Moderator: Sean Kiley, MD, Assistant Professor of Anesthesiology, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

Learner Objectives: After participating in this activity, the learner will be able to: (1) Critically assess intraoperative pain regimens frequently chosen by anesthesiologist; (2) Discuss how intraoperative and immediate post op pain regimens affect long term outcomes; and (3) Discuss the possible role of anesthesiologists in the initiation of addictive behaviors.

AP, EEP, PM, PME

PBLD-TUES-05 Persistent Post-Surgical Pain and Prevention – Evidence-Based

Moderator: Anis Dizdarevic, MD, Assistant Professor of Anesthesiology and Pain Management, Columbia University, New York, New York

Learner Objectives: After participating in this activity, the learner will be able to: (1) Construct a comprehensive understanding of the mechanisms, risk factors and development of PPSP; (2) Design patient and surgery specific risk stratification strategies, within perioperative anesthesia and surgical practices, with the goal to reduce the incidence of PPSP; (3) Analyze, summarize and apply currently available evidence in regional anesthesia and pain medicine to prevent and minimize PPSP, with emphasis on breast cancer and related surgeries.

OB, PM, PME, PS, RA

REVIEW COURSE LECTURE 8:00 am - 8:45 am

RCL-22 Patient-Centered Outcomes: The New Paradigm in Perioperative Medicine

Presenter: Gildasio S. de Oliveira, Jr., MD, Vice Chair for Research and Faculty Affairs, Northwestern University, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the value of patient-centered outcomes in the current health care environment; (2) Explain current validated tools to evaluate patient-centered outcomes in perioperative medicine; (3) Identify interventions that have been proven to improve patient-centered outcomes in perioperative medicine.

EEP, PA, PS

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PANELS 8:00 am - 9:30 am



P-36 Post-Surgical Pain Syndromes: An Analysis and Treatment of Problem Continuum

Moderator: Oscar S. de Leon-Cassala, MD, Professor of Anesthesiology, Program Director, UB Anesthesiology Pain Management Fellowship, Jacobs School of Medicine and Biomedical Sciences, University of Buffalo; Professor, Oncology and Chief, Pain Medicine and Symptom Management, Director, Anesthesia Research Anesthesiology, Roswell Park Cancer Institute, Buffalo, New York; President, ASRA

Panelists:

■ Post-Surgical Pain Syndromes and Incidence Risk Factors and Treatments

Eugene Viscusi, MD, Professor of Anesthesiology, Director of Acute Pain Management, Department of Anesthesiology, Thomas Jefferson University, Philadelphia, Pennsylvania

■ Pediatric Post-Surgical Pain Syndromes and Incidence Risk Factors and Treatments

Santhanam Suresh, MD, Arthur C. King Professor & Chair of Pediatric Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, Illinois

Learner Objectives: After participating in this activity, the learner will be able to: (1) Present the neurobiology of peripheral and central sensitization as a potential contributor to the development of post-surgical pain syndromes; (2) Describe the role of cytokine activation in the potential development of post-surgical pain syndromes; (3) Analyze the literature on alternative therapeutic targets in the pre-, intra-, and postoperative periods to potentially decrease the development of this problem; (4) Define subacute pain and the importance of a differential diagnosis for its appropriate treatment; and (5) Present the pharmacologic and interventional alternatives for the management of patients with post-surgical pain syndromes.

AP, NR, PA, PED, PM, PME, PS

Anesthesia Subspecialty Key for Education Sessions

All education sessions at the Annual Meeting are coded by the anesthesia subspecialty for which they pertain.

AM = Airway Management	EP = Epidemiology	O = Obesity	PS = Patient Safety
AMB = Ambulatory Anesthesia	GA = Geriatric Anesthesia	OB = Obstetric Anesthesiology	RA = Regional Anesthesia
AP = Anesthetic Pharmacology	GH = Global Health	PA = Perioperative Anesthesia	SM = Sleep Medicine
CA = Cardiovascular Anesthesiology	L = Liver	PED = Pediatric Anesthesiology	TCSEM = Technology, Computing and Simulation, Equipment Monitoring
CC = Critical Care	NR = Neuroscience in Anesthesiology and Perioperative Medicine	PM = Pain Medicine	T = Trauma
EEP = Economics, Education and Policy		PME = Pain Mechanisms	

PANELS 8:00 am - 9:30 am Continued

P-37 Defining Value of Regional Anesthesia in the Context of Current Practice

Moderator: Colin McCartney, MBChB, PhD, FRCA, FCARCSI, FRCPC

Panelists:

- **What is Value in Regional Anesthesia?**
Edward Mariano, MD, MAS, Associate Professor of Anesthesiology, VA Palo Alto Health Care System, Palo Alto, California
- **How Do We Measure Costs Related to Regional Anesthesia?**
F. Kayser Enneking, MD, Professor of Anesthesiology, Orthopedics and Rehabilitation, University of Florida College of Medicine, Gainesville, Florida
- **What Are and Who Defines the Outcomes?**
Colin McCartney, MBChB, PhD, FRCA, FCARCSI, FRCPC, Professor and Chair of Anesthesiology, University of Ottawa; Head of Anesthesiology, The Ottawa Hospital; Scientist, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the perioperative goals of patients and providers and how this can be modified by regional anesthesia and acute pain medicine; (2) Discuss the system costs and benefits of a robust regional anesthesia and acute pain service; and (3) Identify aspects of value-based funding reforms across the U.S., Canada and the United Kingdom and how regional anesthesia can facilitate the IHI Triple Aim (patient experience, population health and cost) within those reforms.

EEP, GH, PM, PME, RA

REVIEW COURSE LECTURE 10:00 am - 10:45 am

RCL-23 Quality and Economics in Anesthesia – Let's Step Up to the Plate!

Presenter: Alex Macario, MD, MBA, Professor of Anesthesiology, Perioperative and Pain Medicine, Stanford University, Stanford, California

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss why the definition of quality in anesthesia varies and depends on who the customer is (patients, surgeons, hospital, and government); (2) Examine why patient satisfaction has many confounding variables so may be difficult to detect changes in clinical quality by changes in patient satisfaction; (3) Identify why anesthesiologists and patients agree that avoiding pain and PONV are key endpoints; (4) Discuss why the charges that appear on the hospital bill are different than the true costs that the hospital incurs in patient care; (5) Explain why the majority of hospital costs are overhead costs related to buildings, equipment, salaried labor, which are fixed over the short term; and (6) Define why the variable costs vary by case volume.

EEP

PANELS 10:00 am - 11:30 am



P-38 Advanced Airway Management: Current State of the Art and Science

Moderator: Ashutosh Wali, MBBS, MD, FFARCSI

Panelists:

- **Big Data: Airway Lessons Learned**
P. Allan Klock, Jr., MD, Professor and Vice Chair of Clinical Affairs, Department of Anesthesia and Critical Care, The University of Chicago, Chicago, Illinois
- **Difficult/Failed Video Laryngoscopy: What's Next?**
Michael Aziz, MD, Associate Professor, Oregon Health and Science University, Portland, Oregon; At Large Member, SAM
- **Airway Devices and Techniques: What's New?**
Ashutosh Wali, MBBS, MD, FFARCSI, Associate Professor and Director, Advanced Airway Management; Director, Division of Obstetric/Gynecologic Anesthesiology, Baylor College of Medicine, Houston, Texas; President, SAM

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the airway lessons learned from large database studies; (2) Identify the established predictors of difficult or failed video laryngoscopy; (3) Describe the tools to potentially overcome difficult video laryngoscopy; (4) Discuss other unique options to manage difficult tracheal intubation and difficult facemask ventilation; and (5) Describe a staged technique for safe tracheal extubation, especially for the obese/obstructive sleep apnea patient.

AM, O, PS, SM

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PANELS 10:00 am - 11:30 am Continued

P-39 Perioperative Clinical Decision Support: Improving Care of the Surgical Patient Through Informatics

Moderator: Karl Poterack, MD, Assistant Professor of Anesthesiology; Medical Director, Applied Clinical Informatics Office of Information and Knowledge Management, Mayo Clinic, Phoenix, Arizona

Panelists:

■ Real Time Decision-Support for the OR

Richard Epstein, MD, Professor of Anesthesiology, Director, Anesthesia Information Systems, Thomas Jefferson University, Philadelphia, Pennsylvania

■ An AIMS-Based Real Time Decision Support Module

Bala Nair, PhD, Associate Professor, Department of Anesthesiology and Pain Medicine, University of Washington, Seattle, Washington

■ Driving Reporting and Quality Improvement

Patrick Guffey, MD, Assistant Professor, Anesthesiology, University of Colorado School of Medicine; Children's Hospital Colorado, Aurora, Colorado

Learner Objectives: After participating in this activity, the learner will be able to: (1) Develop and implement provider dashboards to help drive improvements in the quality of patient care; (2) Explain the technical and logistical issues involved in implementing CDS using near real-time data from physiologic monitors, ventilators, and the electronic health record; (3) Explain how to implement perioperative CDS to enhance compliance with clinical protocols; and (4) Discuss the process of translating research findings published in the medical literature to CDS.

PS, TCSEM

REVIEW COURSE LECTURE 11:00 am - 11:45 am

RCL-24 Imaging for Chronic Pain – Can We Improve Patient Outcomes?

Presenter: Sean Mackey, MD, PhD, Redlich Professor of Anesthesiology, Perioperative and Pain Medicine, Neurosciences and Neurology (by courtesy), Chief, Division of Pain Medicine, Director, Stanford Systems Neuroscience and Pain Lab (SNAPL), Stanford University School of Medicine, Palo Alto, California; Immediate Past-President, American Academy of Pain Medicine

AP, PM, PME



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Moderated Poster Discussion Sessions

Saturday, May 21

9:30 am – 6:00 pm

Sunday, May 22

8:00 am – 6:00 pm

Monday, May 23

8:00 am – 6:00 pm

General Physical Posters

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Medically Challenging Cases ePosters

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Scholars' ePosters

Discussion Times: 9:30 am – 11:00 am	Page
Critical Care 1	75
Anesthetic Pharmacology 1	75
Pain Medicine 1 & Regional Anesthesia 1	76

Learner Objectives: As a result of participating in this educational activity, the learner will be able to identify research findings relative to anesthesiology and evaluate their application to professional practice.

General Physical Posters

Neuroscience in Anesthesiology & Perioperative Medicine 1
Abstracts in Poster Discussion Round: S-148 – S-154
9:30 am - 11:00 am

PR01-01

Poster Moderator: R. Schumann, MD, Tufts Medical Center, Boston, Massachusetts

S-148 MICROGLIA ARE REQUIRED FOR THE DEVELOPMENT OF POSTOPERATIVE COGNITIVE DECLINE AFTER TIBIAL SURGERY IN MICE

X. Feng¹, M. Valdearcos Contreras², S. Koliwad², M. Maze¹

¹Dept of Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California, ²Dept of Medicine, University of California, San Francisco, San Francisco, California

S-149 EXERCISE ATTENUATES THE PERSISTENT POSTOPERATIVE COGNITIVE DECLINE IN A RAT MODEL OF METABOLIC SYNDROME

X. Feng¹, Q. Shao¹, Y. Uchida¹, L. G. Koch², S. L. Britton², M. Maze¹

¹Dept of Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California, ²Dept of Anesthesiology, University of Michigan, Ann Arbor, Michigan

S-150 BENZODIAZEPINES MODULATE POST-TRAUMATIC BRAIN INJURY NEUROGENESIS IN MICE

A. Peters, L. Villasana, E. Schnell

Anesthesiology & Perioperative Medicine, Oregon Health & Science University, Portland, Oregon

S-151 GENETICS OF ISOFLURANE-INDUCED NEUROTOXICITY IN C. ELEGANS

G. Morgan, M. M. Sedensky

Anesthesiology and Pain Medicine, University of Washington, SCRI, Seattle, Washington

S-152 TARGETED GENOTYPING IDENTIFIES TWO SUSCEPTIBILITY LOCI IN BDNF GENE FOR CHRONIC POSTSURGICAL PAIN

T. Gin, Y. Tian, X. Liu, W. K. Wu, M. T. Chan

Anaesthesia and Intensive Care, Chinese University of Hong Kong, Shatin, Hong Kong

S-153 RESOLUTION OF EEG SLOWING MIRRORS RECOVERY FROM POSTOPERATIVE DELIRIUM

G. P. Apakama¹, N. Lin², T. Wildes³, M. S. Avidan⁴, B. A. Palanca⁵

¹Anesthesiology, Washington University in St. Louis, School of Medicine, St. Louis, Missouri, ²Biostatistics & Mathematics, Washington University in St. Louis, St. Louis, Missouri, ³Anesthesiology, Washington University in St. Louis School of Medicine, St. Louis, Missouri, ⁴Anesthesiology, Washington University School of Medicine, St. Louis, Missouri, ⁵Anesthesiology, Washington University School of Medicine in St. Louis, St. Louis, Missouri

S-154 PERFORMANCE OF A TOUCHSCREEN-BASED VISUAL DISCRIMINATION TASK IS RESTORED WITH ELECTRICAL STIMULATION OF THE VENTRAL TEGMENTAL AREA (VTA) IN RATS SEDATED WITH ISOFLURANE

J. D. Kenny¹, N. E. Taylor¹, J. Pei¹, J. Yang², K. Vlasov³, E. N. Brown⁴, K. Solt¹

¹Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ²Computational and Neural Systems, Caltech, Pasadena, California, ³Anesthesia, Critical Care and Pain Medicine, MGH, Boston, Massachusetts, ⁴Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

Patient Safety 1
Abstracts in Poster Discussion Round: S-213 – S-219, S-449
9:30 am - 11:00 am

PR01-02

Poster Moderator: D. Metro, MD, University of Pittsburgh, Pittsburgh, Pennsylvania

S-213 ANESTHESIA CARE FOR AMBULATORY COLONOSCOPIES IS ASSOCIATED WITH 45% RISK REDUCTION OF 30-DAY EMERGENCY ROOM VISITS AND FLOOR ADMISSIONS

A. Vannucci¹, Y. Yan², S. Namazie-Kummer³, C. Chen⁴, D. Helsten¹, W. C. Dunagan⁵, B. L. Hall⁶

¹Dept. of Anesthesiology, Washington University in St. Louis, Saint Louis, Missouri, ²Dept. of Surgery - Division of Public Health Sciences, Washington University in St. Louis, Saint Louis, Missouri, ³Center for Clinical Excellence, BJC Healthcare, St. Louis, Missouri, ⁴Dept. of Medicine - Division of Gastroenterology, Washington University in St. Louis, Saint Louis, Missouri, ⁵Dept. of Medicine and CCE BJC, Washington University in St. Louis, Saint Louis, Missouri, ⁶Dept. of Surgery and CCE BJC, Washington University in St. Louis, St. Louis, Missouri

General Physical Posters

PR01-02, continued

S-214 ANESTHETIC SAFETY FOR ENDOSCOPIC RETROGRADE CHOLANGIOPANCREATOGRAPHY (ERCP) IN THE PRONE POSITION BY DIFFERENT ANESTHETIC PROVIDER GROUPS

K. Nomoto¹, J. Feit², A. Evans¹, J. Ko¹, D. Wax¹

¹Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, NY,

²Anesthesiology, NYU School of Medicine, New York, New York

S-215 INITIAL ASSESSMENT OF AUTOMATED SSEP FOR DETECTION OF INTRAOPERATIVE POSITIONAL NEUROPRAXIA IN CARDIAC SURGERY

J. M. Murkin, T. Turkstra, R. Mayer

Anesthesiology and Perioperative Medicine, LHSC, Schulich School of Medicine, UWO, London, Ontario, Canada

S-216 A PREDICTIVE MODEL TO DETERMINE LANGUAGE RESPONSE IN BILINGUAL PATIENTS EMERGING FROM GENERAL ANESTHESIA

M. Alaka¹, K. G. Palmer¹, A. L. Feldner², A. J. Rubinstein², N. E. Klietnik², D. B. Glick²

¹Pritzker School of Medicine, University of Chicago, Chicago, Illinois,

²Department of Anesthesia & Critical Care, University of Chicago, Chicago, Illinois

S-217 INACCURATE SYRINGE SIZE DETECTION BY THE INFUSION PUMP FROM THE ATTACHED STOPCOCK TO THE SYRINGE

W. Chee

Department of Anesthesiology, Montefiore Medical Center & Albert Einstein College of Medicine, Bronx, New York

S-218 APROTININ IS WITHOUT BENEFIT IN HIGH RISK PATIENTS

C. Jakobsen¹, M. Tang²

¹Anesthesiology and Intensive Care, Aarhus University Hospital, Aarhus, Denmark, ²Department of Cardiothoracic and Vascular Surgery, Aarhus University Hospital, Aarhus N, Denmark

S-219 USING NON-INVASIVE RESPIRATORY VOLUME MONITORING IN THE POST-ANESTHESIA CARE UNIT TO MONITOR POST-OPERATIVE RESPIRATORY DEPRESSION IN PATIENTS IDENTIFIED AS AT-RISK FOR OBSTRUCTIVE SLEEP APNEA UTILIZING THE FLEMON'S CRITERIA

Y. Martin¹, A. Cavalcante¹, D. S. Eversole², J. Sprung¹, T. N. Weingarten¹

¹Anesthesiology, Mayo Clinic, Rochester, Minnesota, ²Clinical Research, Respiratory Motion, Inc., Waltham, Massachusetts

S-449 OBSERVATIONAL PILOT STUDY INVESTIGATING SAFE ANESTHESIA PRACTICES DURING CAESARIAN SECTION IN KENYA

K. G. McEvoy¹, M. Newton¹, M. Newton², M. M. Mungai³, M. D. McEvoy⁴

¹Anaesthesia, Kijabe Hospital, Kijabe, Kenya, ²Anesthesiology,

Vanderbilt, Nashville, TN, ³Anaesthesia, Kijabe Hospital, Nairobi, Kenya,

⁴Anesthesiology, Vanderbilt University, Nashville, TN

Perioperative Anesthesia 1

Abstracts in Poster Discussion Round:

S-269 – S-271, S-274 – S-276, S-296 – S-297

9:30 am - 11:00 am

PR01-03

Poster Moderator: H. Nakatsuka, MD, Kawasaki Medical University, Kurashiki, Japan

S-269 ROLE OF PULMONARY OXYGEN UPTAKE AS A PREDICTOR OF INCREASED RISK FOR ADVERSE OUTCOME FOLLOWING ADULT NON-CARDIAC ANESTHESIA

W. H. Stapelfeldt, K. E. Strehl, H. Yuan, J. K. Dryden

Anesthesiology & Critical Care Medicine, Saint Louis University School of Medicine, Saint Louis, Missouri

S-270 THE EFFECTIVENESS OF DEXMEDETOMIDINE AS A PROPHYLACTIC TREATMENT FOR EMERGENCE DELIRIUM AMONG COMBAT VETERANS WITH HIGH ANXIETY: A RANDOMIZED, CONTROLLED TRIAL

J. McGuire¹, A. J. Hudson², J. T. Wilson³, V. Blackman¹, E. Bopp⁴

¹Department of Research Programs, Walter Reed National Military Medical Center, Bethesda, Maryland, ²Anesthesiology, Uniformed Services University of the Health Sciences, Bethesda, Maryland, ³Anesthesiology, Womack Army Medical Center, Fort Bragg, NC, ⁴Anesthesiology, Naval Medical Center San Diego, San Diego, California

S-271 A PERIOPERATIVE SMOKING CESSATION INTERVENTION WITH VARENICLINE VS. BRIEF ADVICE

J. Wong¹, A. Abrishami¹, S. Riazzi¹, N. Siddiqui², D. T. Wong¹, E. You-Ten², F. Chung¹

¹Anesthesia, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada, ²Anesthesia, Mount Sinai Hospital, Toronto, Ontario, Canada

General Physical Posters

PR01-03, continued

S-274 CHARACTERIZING FADE UPON TRAIN-OF-FOUR STIMULATION DURING ONSET AND OFFSET OF NEUROMUSCULAR BLOCK PRODUCED BY SUCCINYLCHOLINE

D. Lau, N. Goyal, G. Pond, S. B. Bhatt

Anesthesiology, University of Toledo Medical Center, Toledo, Ohio

S-275 PERIOPERATIVE SURGICAL HOME DECREASES HOSPITAL LENGTH OF STAY, WITH CONTINUED IMPROVEMENT WITH FURTHER IMPLEMENTATION

J. H. Shah, R. N. Raval, R. L. Applegate, V. Bradford, R. D. Martin, H. Ruckle, G. Stier

Anesthesia, Loma Linda University Medical Center, Loma Linda, California

S-276 COMPLEX MODULATION OF THE IMMUNE RESPONSE TO SURGERY BY IMMUNE ENHANCING NUTRIENTS

B. Gaudilliere¹, N. Aghaepour¹, E. A. Ganio², H. Lancero¹, L. McNeil¹, M. S. Tingle³, M. S. Angst⁴

¹Anesthesia, Stanford University, Palo Alto, California, ²Anesthesia, Stanford University, Stanford, California, ³Anesthesia, Stanford, Stanford, California, ⁴Anesthesiology, Perioperative and Pain Medicine, Stanford, Stanford, California

S-296 TISSUE DAMAGE INDUCED PERIOPERATIVE INFLAMMATION IS ASSOCIATED WITH A GREATER RISK OF POSTOPERATIVE DELIRIUM IN ELDERLY PATIENTS UNDERGOING SPINE SURGERY: A PROSPECTIVE OBSERVATIONAL STUDY

J. G. Gaudet

Anesthesiology, Columbia University, New York, New York

S-297 PERIOPERATIVE ANESTHETIC AND SURGICAL RISK FACTORS ASSOCIATED WITH POSTOPERATIVE DELIRIUM IN ELDERLY PATIENTS UNDERGOING ELECTIVE SPINE SURGERY: A PROSPECTIVE OBSERVATIONAL STUDY

J. G. Gaudet

Anesthesiology, Columbia University, New York, New York

Technology, Computing and Simulation,
Equipment Monitoring 1
Abstracts in Poster Discussion Round: S-337 – S-344
9:30 am – 11:00 am

PR01-04

Poster Moderator: **M. Brzezinski, MD, PhD**, University of California San Francisco, San Francisco, California

S-337 INTELLIGIBILITY IN THE OPERATING ROOM: SIZE MATTERS

R. R. McNeer¹, C. L. Bennett², R. Dudaryk¹

¹Department of Anesthesiology, University of Miami, Miami, Florida,

²Music Engineering, University of Miami, Coral Gables, Florida

S-338 ADVERSE EVENT REPORTING SYSTEMS IN A NON OPERATING ROOM SETTING

Christopher M. Ma, J. Blum

Anesthesiology, Emory University School of Medicine, Atlanta, Georgia

S-339 DECREASING MATERNAL MORTALITY IN SUB-SAHARAN AFRICA: CAN SIMULATION AND OBSTETRIC CRISIS CHECKLISTS MAKE AN IMPACT?

L. A. Alexander¹, M. Newton¹, M. Dimiceli², M. Mungai³, J. Kiptanui³, M. Stephen³, M. D. McEvoy¹

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee,

²Anesthesiology; Division of Obstetric Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ³Anesthesiology, Kijabe Hospital, Kijabe, Kenya

S-340 USE OF A STANDARDIZED CHECKLIST INCREASES THE COMPLETION RATE OF CRITICAL ACTIONS IN DISASTER EVACUATION FROM THE OPERATING ROOM: A RANDOMIZED CONTROLLED SIMULATION STUDY

Y. A. Acar¹, N. Mehta², M. Rich¹, M. Careskey³, J. R. Generoso¹, R. L. Fidler⁴, J. Hirsch²

¹Simulation Center, San Francisco VAMC, San Francisco VA Medical Center and University of California, San Francisco, San Francisco, California, ²Anesthesia Service, San Francisco VAMC, San Francisco VA Medical Center and University of California, San Francisco, San Francisco, California, ³Anesthesia Service, San Francisco VAMC, University of California, San Francisco, San Francisco, California, ⁴Anaesthesia Service, San Francisco VA Medical Center, San Francisco, California

General Physical Posters

PR01-04, continued

S-341 SEER SONORHEOMETRY VERSUS ROTATIONAL THROMBOELASTOMETRY IN LARGE VOLUME BLOOD LOSS SPINE SURGERY

B. Naik¹, M. Durieux¹, J. Sharma¹, B. Yalamuru², V. Bui-Huynh¹, E. Nemerbut¹

¹Anesthesiology, University of Virginia, Charlottesville, Virginia,

²Anesthesiology, University of Iowa, Iowa City, Iowa

S-342 ACUTE CHANGES IN PERFUSION INDEX HAD AN IMPACT ON THE ACCURACY OF NON INVASIVE CONTINUOUS HEMOGLOBIN MEASUREMENTS DURING INDUCTION OF ANESTHESIA IN HUMAN

J. Saito, T. Kushika, K. Hirota, M. Kitayama

Department of Anesthesiology, Hirosaki University Graduate School of Medicine, Hirosaki, Japan

S-343 ASSESSING IMAGE ACCURACY IN SIMULATION-BASED TRAINING OF TRANSESOPHAGEAL ECHOCARDIOGRAPHY

Z. Knio¹, L. Yeh², A. Mashari², M. Montealegre-Gallegos², S. Jones², J. D. Mitchell², R. Matyal²

¹Department of Surgery, Division of Cardiac Surgery, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts,

²Department of Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts

S-344 PULSE-INDUCED CONTINUOUS CARDIAC OUTPUT (PICCO) VERSUS TRANS-ESOPHAGEAL DOPPLER MONITOR (TED) FOR OPTIMIZATION OF FLUID MANAGEMENT IN PATIENTS UNDERGOING MAJOR ABDOMINAL SURGERY. A COMPARATIVE STUDY

H. F. Hassan¹, M. Z. Ali¹, A. I. Refaat¹, M. A. Abdelhaq², R. S. Ebied¹, A. S. El-Hadidy¹, N. G. Elsharkawi²

¹Anesthesia and ICU, Theodor Bilharz Research Institute, Giza, Egypt,

²Anesthesia and ICU, Kasr El-Aini University Hospital, Cairo, Egypt

Ambulatory Anesthesia 1
Abstracts in Poster Discussion Round: S-23 – S-30
1:00 pm - 2:30 pm

PR01-05

Poster Moderator: M. Rosenblatt, MD, Mt. Sinai Medical Center, New York, New York

S-23 USE OF NON-INVASIVE MINUTE VENTILATION (EXPIRON) REDUCES HYPOVENTILATION AND APNEA DURING TOTAL INTRAVENOUS ANESTHESIA (TIVA)

J. A. Blinn, C. T. Porter, T. M. Ho, R. A. McQuitty, M. Kinsky

Department of Anesthesiology, University of Texas Medical Branch, Galveston, Texas

S-24 USE OF CPAP DEVICES IN AMBULATORY SURGERY CENTERS

A. Alishahi¹, J. Marull¹, S. R. Eckert², G. P. Joshi¹

¹Department of Anesthesiology and Pain Management, University of Texas Southwestern Medical Center, Dallas, Texas, ²Anesthesiology, Austin Anesthesiology Group, Austin, Texas

S-25 COMPARISON OF NON-INVASIVE MONITORING TECHNIQUES DURING INTRAVENOUS PROPOFOL-BASED ANESTHESIA: RESPIRATORY VOLUME MONITORING VS. CAPNOGRAPHY

A. S. Nichols, S. Pentakota, B. Kodali

¹Anesthesiology, Brigham and Women's Hospital, Boston, Massachusetts,

S-26 ANESTHESIOLOGIST-ADMINISTERED PROPOFOL SEDATION RESULTS IN LESS VENTILATORY DEPRESSION THAN GASTROENTEROLOGIST-ADMINISTERED SEDATION FOR GI PROCEDURES

D. M. Mathews, K. Kristiansen, M. Oberding, K. Abnet, S. E. O'Donnell, K. MacDonald, J. Fitzgerald

Anesthesiology, University of Vermont College of Medicine, Burlington, Vermont

S-27 THE EFFECT OF ZINC LOZENGES ON POSTOPERATIVE SORE THROAT SYNDROME: A PROSPECTIVE RANDOMIZED, DOUBLE BLINDED, PLACEBO-CONTROLLED STUDY

B. Farhang, L. S. Grondin

Anesthesiology, University of Vermont Medical Center, Burlington, Vermont

General Physical Posters

PR01-05, continued

S-28 RAPID ONSET OF PAIN RELIEF WITH OLICERIDINE (TRV130), A NOVEL μ RECEPTOR G PROTEIN PATHWAY SELECTIVE (μ -GPS) MODULATOR, VS. MORPHINE: A PHASE 2A/B STUDY ANALYSIS

E. Viscusi¹, L. Webster², D. Soergel³, D. A. Burt⁴, F. Skobieranda⁵, T. J. Gan⁶

¹Anesthesiology, Thomas Jefferson University, Philadelphia, Pennsylvania, ²Anesthesiology, PRA Health Sciences, Salt Lake City, Utah, ³Clinical Development, Trevena, inc, King of Prussia, Pennsylvania, ⁴Biostatistics, Trevena Inc, King of Prussia, Pennsylvania, ⁵Clinical Development, Trevena, Inc., King of Prussia, Pennsylvania, ⁶Anesthesiology, Stony Brook University, Stony Brook, New York

S-29 AN IN-VIVO PORCINE MODEL FOR VENOUS AIR EMBOLISM DURING VITRECTOMY SURGERY

H. D. Palte¹, T. A. Albini², H. W. Flynn², R. Martinez-Ruiz¹, N. Salas³, J. Parel², S. Gayer¹

¹Anesthesiology, University of Miami, Miami, Florida, ²Ophthalmology, University of Miami, Miami, Florida, ³Surgery, University of Miami, Miami, Florida

S-30 A RANDOMIZED, PLACEBO- AND ACTIVE-CONTROLLED PHASE 2B STUDY INVESTIGATING OLICERIDINE (TRV130), A NOVEL μ RECEPTOR G PROTEIN PATHWAY SELECTIVE (μ -GPS) MODULATOR

H. Minkowitz¹, D. Soergel², D. Burt³, F. Skobieranda², T. J. Gan⁴

¹Anesthesiology, Memorial Hermann Memorial City Medical Center, Houston, Texas, ²Clinical Development, Trevena, Inc., King of Prussia, Pennsylvania, ³Biostatistics, Trevena, Inc., King of Prussia, Pennsylvania, ⁴Anesthesiology, Stony Brook University, Stony Brook, New York

S-31 PREDICTORS OF EARLY POSTSURGICAL PAIN IN CHILDREN UNDERGOING OUTPATIENT OPERATIONS

O. Nafiu, W. Chimbira, M. Stewart, K. Gibbons

Anesthesiology, University of Michigan Health Systems, Ann Arbor, Michigan

Cardiovascular Anesthesiology 1
Abstracts in Poster Discussion Round: S-55 – S-60
1:00 pm - 2:30 pm

PR01-06

Poster Moderator: G. Hall; MB, BS, PhD, DSc, St. George's, University of London, London, United Kingdom

S-55 COLLOIDS IN CARDIAC SURGERY-FRIEND OR FOE

C. Jakobsen¹, M. Tang²

¹Anaesthesiology and Intensive Care, Aarhus University Hospital, Aarhus, Denmark, ²Department of Cardiothoracic and Vascular Surgery, Aarhus University Hospital, Aarhus N, Denmark

S-56 EXPOSURE TO CARDIOPULMONARY BYPASS DURING CORONARY ARTERY BYPASS SURGERY AND POSTOPERATIVE DELIRIUM

J. B. O'Neal¹, X. Liu², M. S. Shotwell², Y. Liang¹, A. Shaw¹, A. Shah³, F. T. Billings¹

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Biostatistics, Vanderbilt University, Nashville, Tennessee, ³Cardiac Surgery, Vanderbilt University Medical Center, Nashville, Tennessee

S-57 IMPACT OF PREOPERATIVE STATIN OR BETA BLOCKER USE AND DELIRIUM FOLLOWING CARDIAC SURGERY

J. B. O'Neal¹, X. Liu², M. S. Shotwell², Y. Liang¹, A. Shaw¹, A. Shah³, F. T. Billings¹

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Biostatistics, Vanderbilt University, Nashville, Tennessee, ³Cardiac Surgery, Vanderbilt University Medical Center, Nashville, Tennessee

S-58 DECREASING FORCE DEVELOPMENT IN HYPERCONTRACTILE CARDIAC RATS MUSCLES BY FROPOFOL: POTENTIAL IMPLICATIONS TO TREATMENT OF HEART DISEASES WITH HYPERCONTRACTILE STATES

X. Ren¹, W. Gao²

¹Department of Anesthesiology, China-Japan Friendship Hospital, Beijing, China, ²Department of Anesthesiology And Critical Care Medicine, The Johns Hopkins Hospital, Baltimore, Maryland

S-59 MITOCHONDRIAL TRPV1 REGULATES ENDOTHELIAL DYSFUNCTION IN DIABETIC RATS AND HUMAN ENDOTHELIAL CELLS

N. Wagner

Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University Medical School, Stanford, California

General Physical Posters

PR01-06, continued

S-60 IMPACT OF PACKED RED BLOOD CELL TRANSFUSIONS ON MORTALITY IN PATIENTS UNDERGOING CARDIAC SURGERY

F. Balzer¹, B. Weiss², H. Grubitzsch³, M. Sander⁴, S. Treskatsch¹

¹Department of Anesthesiology and Intensive Care Med, Charite - Universitaetsmedizin Berlin, Berlin, Germany, ²Department of Anaesthesiology and Intensive Care Medicine, Charite-Universitaetsmedizin Berlin, Berlin, Germany, ³Department of Cardiovascular Surgery, Charite - Universitaetsmedizin Berlin, Berlin, Germany, ⁴Department of Anesthesiology and Intensive Care Med, Universitaetsklinikum Giessen, Giessen, Germany

Geriatric Anesthesia 1

Abstracts in Poster Discussion Round: S-138 – S-141
1:00 pm - 2:30 pm

PR01-07

Poster Moderator: E. Hessel, MD, University of Kentucky, Lexington, Kentucky

S-138 CHANGES OF THE HEMODYNAMIC PROFILES DURING TRANSURETHRAL RESECTION OF PROSTATE IN ELDERLY PATIENTS UNDER SPINAL ANESTHESIA WITH LOW DOSE OF BUPIVACAINE: AN OBSERVATIONAL STUDY WITH NON-INVASIVE CARDIAC OUTPUT MONITORING

J. Park¹, S. Choi¹, H. Kil²

¹Department of Anesthesiology and Pain Medicine, and Anesthesia and Pain Research Institute, Yonsei University College of Medicine, Seoul, Republic of Korea; ²Department of Anesthesiology and Pain Medicine, and Anesthesia and Pain Research Institute, Yonsei University College of Medicine, Republic of Seoul, Korea

S-139 RETROSPECTIVE ANALYSIS OF PERIOPERATIVE BLOOD TRANSFUSION IN GERIATRIC POPULATION UNDERGOING HIP FRACTURE SURGERY IS ASSOCIATED WITH INCREASED MORBIDITY AND MORTALITY

H. Li¹, D. Blumenkranz¹, D. W. Saberito¹, K. Kang³, P. Homel³, P. M. Gupta¹, D. E. Feierman¹

¹Anesthesiology, Maimonides Medical Center, Brooklyn, New York, ²Orthopedics, Maimonides Medical Center, Brooklyn, New York, ³Biostatistics, Maimonides Medical Center, Brooklyn, New York

S-140 INTERRATER RELIABILITY OF DELIRIUM ASSESSMENTS BETWEEN INVESTIGATORS AT MULTIPLE INTERNATIONAL CENTERS

H. R. Maybrier, A. M. Mickle, K. E. Escallier, R. T. Upadhyayula, M. R. Murphy, G. P. Apakama, M. S. Avidan

Anesthesiology, Washington University School of Medicine, St. Louis, Missouri

S-141 VALIDATION OF A NURSE-BASED DELIRIUM SCREENING TOOL FOR HOSPITALIZED PATIENTS

A. Hargrave¹, J. Bourgeois², J. Bastiaens², A.S. Josephson¹, J. Chinn³, M. Lee⁴, J. M. Leung⁵, V. Douglas¹

¹Neurology, University of California San Francisco, San Francisco, California, ²Psychiatry, University of California San Francisco, San Francisco, California, ³Musculoskeletal, University of California San Francisco, San Francisco, California, ⁴Institute for Nursing Excellence, University of California San Francisco, San Francisco, California, ⁵Anesthesia & Perioperative Care, University of California San Francisco, San Francisco, California

Anesthetic Pharmacology 1

Abstracts in Poster Discussion Round: S-32 – S-39
2:45 pm - 4:15 pm

PR01-08

Poster Moderator: G. Hall; MB, BS, PhD, DSc, St. George's, University of London, London, United Kingdom

S-32 PROLIFERATION OF C6 GLIOMA CELLS IS REGULATED BY TRANSIENT RECEPTOR POTENTIAL MELASTATIN 7 CHANNELS

T. Leng¹, C. Xiao², Z. Xiong¹, J. Lin²

¹Neuroscience Institute, Morehouse School of Medicine, Atlanta, Georgia, ²Department of Anesthesiology, Stony Brook University Health Sciences Center, Stony Brook, New York

S-33 MIDAZOLAM INDUCED PROLIFERATION LOSS IN HUMAN GLIOBLASTOMA BY SUPPRESSING TRPM7 CHANNELS

J. Chen¹, C. Xiao², Y. Dou³, W. Zhu⁴, J. Lin²

¹Department of Pharmacology, Sun Yat-sen University, Guangzhou, China, ²Department of Anesthesiology, Stony Brook University Health Sciences Center, Stony Brook, NY, ³Department of Anesthesiology, Sun Yat-sen University, Guangzhou, China, ⁴Pharmacology, Zhongshan School of Medicine, Sun Yat-sen University, Guangzhou, China

General Physical Posters

PR01-08, continued

S-34 ANTIMICROBIAL SENSITIVITIES AND RESISTANCE OF METHICILLIN-SENSITIVE *S. AUREUS* (MSSA) IN A TERTIARY CARE HOSPITAL IN JAPAN; A VALIDITY OF THE USE OF US (UNITED STATES) GUIDELINES IN JAPAN

Y. Asakura¹, M. Kinoshita², M. Ozaki³

¹Department of Anesthesiology, Nagoya Kyoritsu Hospital, Nagoya, Japan,

²Department of Anesthesiology, Tokyo Women's Medical University, Tokyo,

Japan, ³Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan

S-35 PHARMACOKINETICS OF INTRAVENOUS ACETAMINOPHEN AND PHARMACODYNAMICS OF CONCOMITANTLY USED ACETAMINOPHEN AND FENTANYL IN PERIOPERATIVE PATIENTS

T. Imaizumi, R. Oishi, M. Mogami, S. Obara, Y. Ikegami, T. Isoso, M. Murakawa

Department of Anesthesiology, Fukushima Medical University, Fukushima, Japan

S-36 KETAMINE POTENTIATES GABAA RECEPTOR FUNCTION IN MICE

D. Wang¹, A. Penna¹, B. A. Orser²

¹Physiology, University of Toronto, Toronto, Ontario, Canada, ²Physiology and Anesthesia, University of Toronto; Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

S-37 INJECTABLE ULTRA-STABLE ISOFLURANE NANO-EMULSION: FORMULATION, STABILITY AND INDUCTION STUDIES IN RATS

B. Ashrafi¹, C. Fraker², R. D. Molano², A. Pileggi², E. A. Pretto¹

¹Anesthesiology, University of Miami Miller School of Medicine, Miami, Florida, ²Surgery, University of Miami Miller School of Medicine, Miami, Florida

S-38 SELECTIVE ALKYLPHENOL ANESTHETIC BINDING TO GABAA SUBUNITS IN NATIVE NEURONAL TISSUE

K. A. Woll¹, S. Murlidaran², J. Hénin³, G. Brannigan², R. Eckenhoff⁴

¹Department of Pharmacology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, ²Center for Computational and Integrative Biology, Rutgers University, Camden, New Jersey, ³Laboratoire de Biochimie Théorique, Institut de Biologie Physico-Chimique, CNRS and Université Paris Diderot Uppsala Biomedicinska Centrum, Uppsala, Sweden, ⁴Department of Anesthesiology & Critical Care, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania

S-39 PI3K/AKT MEDIATES LIDOCAINE PROTECTING RAT PC12 CELLS FROM AMYLOID-BETA TOXICITY

S. Liao¹, C. Xiao², W. Zheng³, J. Lin²

¹Pharmaceutical Sciences, Sun Yat-sen University, Guangzhou, China,

²Department of Anesthesiology, Stony Brook University Health Sciences

Center, Stony Brook, New York, ³Health Sciences, University of Macau, Guangzhou, China

Liver 1

Abstracts in Poster Discussion Round: S-142 – S-147
2:45 pm - 4:15 pm

PR01-09

Poster Moderator: T. Sakai, MD, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania

S-142 THE SYSTEMIC-TO-PULMONARY ARTERY PRESSURE RATIO AS A PREDICTOR OF PATIENT OUTCOME FOLLOWING LIVER TRANSPLANTATION

B. Bauer, A. Rebel, D. Nguyen, P. Sloan, Z. Hassan

Department of Anesthesiology, University of Kentucky, Lexington, Kentucky

S-143 FACTORS ASSOCIATED WITH POST-REPERFUSION SYNDROME IN PEDIATRIC PATIENTS UNDERGOING LIVER TRANSPLANTATION AT TWO ACADEMIC CENTERS

T. M. Austin¹, L. Jorge², H. Lam¹, G. Orihuela², N. Halliday², A. S. Stein², K. K. Brosius¹

¹Anesthesiology, Emory University, Atlanta, Georgia, ²Anesthesiology, University of Miami Jackson Memorial Hospital, Miami, Florida

S-144 USE OF ELDERLY LIVER DONORS. RETROSPECTIVE SINGLE CENTER GRAFT AND PATIENT SURVIVAL

C. Wald¹, F. Souki¹, A. Salama², E. A. Pretto¹

¹Anesthesiology, Perioperative Medicine and Pain Management, University of Miami, Miami, Florida, ²Surgery, University of Miami, Miami, Florida

General Physical Posters

PRO1-09, continued

S-145 THE PROTECTIVE EFFECT OF INSULIN AGAINST ISOFLURANE OR SEVOFLURANE INDUCED HEPATOCELLULAR APOPTOSIS IN LAPAROSCOPIC CHOLECYSTECTOMY PATIENTS

K. G. Radwan¹, M. S. Amer¹, W. A. El Siory², M. A. Maher³, O. A. Hammam⁴, A. S. EL Hadidy¹, H. H. Okasha⁵

¹Anesthesia, Theodor Bilharz Research Institute, Giza, Egypt, ²Anesthesia, Kasr El Aini Hospital, Cairo, Egypt, ³Anesthesiology, Theodor Bilharz Research Institute, Giza, Egypt, ⁴Pathology, Theodor Bilharz Research Institute, Giza, Egypt, ⁵Anesthesiology, Kasr El Aini Hospital, Cairo, Egypt

S-146 INTRAOPERATIVE PEAK BLOOD GLUCOSE AND EARLY GRAFT DYSFUNCTION: DOES DIABETES COMORBIDITY MATTER?

J. Hudcova¹, A. Waqas¹, C. Scopa¹, M. Rashid², M. Khan¹, R. Ruthazer³, R. Schumann⁴

¹Department of Surgical Critical Care, Lahey Hospital and Medical Center, Burlington, Massachusetts, ²Department of Surgery, Tufts Medical Center, Boston, Massachusetts, ³Department of Biostatistics and Epidemiology, Tufts Medical Center, Boston, Massachusetts, ⁴Department of Anesthesiology, Tufts Medical Center, Boston, Massachusetts

S-147 OPTIC NERVE SHEATH DIAMETER AND PULSATILITY INDEX MEASUREMENTS AS MARKER OF POOR PROGNOSIS IN ACUTE LIVER FAILURE

S. Sharma, C. K. Pandey

Anesthesiology and Intensive Care, Institute of Liver and Biliary Sciences, New Delhi, India

Pediatric Anesthesiology 1

Abstracts in Poster Discussion Round: S-241 – S-247
2:45 pm - 4:15 pm

PRO1-10

Poster Moderator: **J. Lichtor, MD**, University of Massachusetts Medical School, Worcester, Massachusetts

S-241 OUTCOMES OF HIGH-RISK PEDIATRIC PATIENTS UNDERGOING LOW-RISK SURGERY

E. Cheon¹, A. Longhini², J. Lee³, J. Hajduk¹, G. De Oliveira², N. Jagannathan¹

¹Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois, ²Anesthesiology, McGaw Medical Center of Northwestern University, Chicago, Illinois, ³Anesthesiology, Northwestern University, Chicago, Illinois

S-242 SLEEP DISORDERED BREATHING AS A RISK FACTOR FOR EMERGENCE DELIRIUM IN PEDIATRIC PATIENTS UNDERGOING AMBULATORY SURGERY

S. Sankaran, W. Chimbira, O. Nafiu

Anesthesiology, University of Michigan, Ann Arbor, Michigan

S-243 INCIDENCE OF ADVERSE EVENTS IN THE OPERATING ROOMS IN A TERTIARY MEDICAL CENTER

B. G. Vlassakova, S. Sinnott, N. Askins, D. Zurakowski, J. Cravero

Department of Anesthesiology, Perioperative and Pain Medicine, Boston Children's Hospital, Boston, Massachusetts

S-244 PHYSICIANS DISPENSE MORE OPIOID THAN NEEDED TO TREAT SAME DAY SURGERY PAIN, A PROSPECTIVE PEDIATRIC COHORT STUDY

M. Yaster¹, S. Gao¹, P. T. Vozzo¹, A. Hsu¹, D. Roter², E. White¹, C. L. Monitto¹

¹Anesthesiology and Critical Care Medicine, Johns Hopkins University, Baltimore, Maryland, ²Department of Health, Behavior, and Society, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland

S-245 ASSESSMENT OF NEONATAL PAIN: CORRELATIONS BETWEEN CORTICAL SOMATOSENSORY PROCESSING AND CRY ACOUSTICS

C. Menser¹, S. Bruehl¹, D. J. France¹, M. Wilkes², N. Maitre³

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²School of Engineering, Vanderbilt University, Nashville, Tennessee, ³Neonatology, Nationwide Children's Hospital, Columbus, Ohio

S-246 CLINICAL USE OF BAXTER RETCHING FACES (BARF) AND VISUAL ANALOG (VAS) SCALES TO MEASURE THE SEVERITY OF POSTOPERATIVE NAUSEA IN CHILDREN

M. F. Watcha, S. A. Bidani, M. Felberg, J. A. Guzman, E. Medellin

Department of Anesthesiology, Baylor College of Medicine, Houston, Texas

S-247 DOES EXHALED NITRIC OXIDE PREDICT POSTOPERATIVE COMPLICATIONS?: A PILOT STUDY IN PEDIATRIC ADENOTONSILLECTOMY

D. H. Jablonka, T. Goebel, E. McBride, W. England, E. Wartman

Anesthesiology and Critical Care Medicine, The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

General Physical Posters

Airway Management 1
Abstracts in Poster Discussion Round: S-1 – S-7
4:30 pm – 6:00 pm

PR01-11

Poster Moderator: M. Yamakage, MD, PhD, Sapporo Medical University, Sapporo, Japan

S-1 COMPARISON OF AIRWAY INDICES, BODYMASS INDEX AND CORMACK LEHANE GRADING IN SNORERS AND NON SNORERS

N. Jonnavithula, S. Garre, K. Anne, G. Ramachandran

Department of Anesthesiology and Intensive Care, Nizam's Institute of Medical Sciences, Hyderabad, India

S-2 COMPARISON OF SIZE 2 LARYNGEAL TUBE SUCTION II WITH PROSEAL LMA™ IN ANAESTHETISED, PARALYZED CHILDREN UNDERGOING ELECTIVE SURGERY

D. K. Sreevastava

Anesthesiology & Critical Care, Command Hospital (SC), Pune, India

S-3 FINESSE NOT FORCE: DIFFICULTIES DURING AIRWAY MANAGEMENT IN OCTOGENARIANS REGARDING INTUBATION, VENTILATION, AND OXYGENATION

K. N. Johnson, L. Groban, Y. F. Bryan

Anesthesiology, Wake Forest Baptist Health, Winston-Salem, North Carolina

S-4 SUBGLOTTIC PERIOPERATIVE AIRWAY – TUBE INFLATION VIA RANDOMIZED EVALUATION WITH VARIABLE SYRINGE SIZE (SPAIR-TIRE) STUDY

G. Williams¹, C. A. Artime², J. Tam², T. Burnett², O. L. Mancillas², T. A. Syed², C. A. Hagberg²

¹Anesthesiology and Neurosurgery, The University of Texas Health Science Center at Houston (UTHealth) McGovern Medical School, Houston, Texas,

²Anesthesiology, The University of Texas Health Science Center at Houston (UTHealth) McGovern Medical School, Houston, Texas

S-5 A COMPARISON OF THE KING VISION CHanneled, KING VISION NONCHANneled, AND COBALt GLIDESCOPE VIDEO INTUBATION SYSTEMS IN PATIENTS AT RISK FOR DIFFICULT INTUBATION

S. Guzman-Reyes, G. Medina-Rivera, O. O. Nwokolo, T. H. Markham, S. D. Gumbert, T. Burnett, C. A. Hagberg

Anesthesiology, The University of Texas Health Science Center at Houston (UTHealth) McGovern Medical School, Houston, Texas

S-6 PERIOPERATIVE AIRWAY CHANGES AND THEIR RETURN TO BASELINE IN PATIENTS UNDERGOING ELECTIVE SURGERY IN THE PRONE AND TRENDelenBURG POSITIONS: EARLY DATA

F. Sawyer¹, T. Phan¹, I. Moreno Duarte², I. Bonney², R. Schumann²

¹School of Medicine, Tufts University, Boston, Massachusetts, ²Department of Anesthesiology, Tufts Medical Center, Boston, Massachusetts

S-7 COMPUTATIONAL MODELING OF DIRECT LARYNGOSCOPY AND THE EFFECT OF CERVICAL SPINE INJURY ON INTERVERTEBRAL KINETICS

B. Gadomski¹, S. Shetye², B. Hindman³, B. Santoni⁴, M. M. Todd³, R. Fontes⁵, C. Puttlitz¹

¹Mechanical Engineering, Colorado State University, Fort Collins, Colorado,

²McKay Orthopaedic Research Laboratory, University of Pennsylvania,

Philadelphia, Pennsylvania, ³Anesthesia, University of Iowa, Iowa City, Iowa,

⁴Research, Foundation for Orthopaedic Research and Education, Tampa,

Florida, ⁵Neurosurgery, Rush University Medical Center, Chicago, Illinois

Neuroscience in Anesthesiology & Perioperative Medicine 2
Abstracts in Poster Discussion Round: S-155 – S-160
4:30 pm - 6:00 pm

PR01-12

Poster Moderator: C. Paisansathan, MD, University of Illinois at Chicago, Chicago, Illinois

S-155 GABAPENTIN RECRUITMENT OF δGABAA RECEPTORS TO THE CELL MEMBRANE CAUSES SEDATION AND ATAXIA IN MICE

D. Wang¹, J. Yu¹, R. P. Bonin², B. A. Orser³

¹Physiology, University of Toronto, Toronto, Ontario, Canada, ²Leslie Dan Faculty of Pharmacy, University of Toronto, Toronto, Ontario, Canada,

³Physiology and Anesthesia, University of Toronto; Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

S-156 NEUROPROTECTIVE EFFECT OF AMIODARONE IN MOUSE MODEL OF ISCHEMIC STROKE

M. Kotoda¹, S. Hishiyama², T. Ishiyama³, T. Matsukawa¹

¹Department of Anesthesiology, University of Yamanashi, Chuo, Japan,

²Department of Anesthesia, Yamanashi Prefectural Central Hospital, Kofu, Japan, ³Surgical Center, University of Yamanashi Hospital, Chuo, Japan

General Physical Posters

PR01-12, continued

S-157 CARBON MONOXIDE AND ISOFLURANE-INDUCED NEURODEGENERATION IN THE DEVELOPING MURINE BRAIN

R. Levy¹, W. Supplee², A. Wang¹

¹Anesthesiology, Columbia University Medical Center, New York, New York,

²General, NJ Medical School, Newark, New Jersey

S-158 THE EFFECT OF DELAYED PRECONDITIONING INDUCED BY ISOFLURANE IN A RAT MODEL OF PROLONGED CARDIAC ARREST

L. Huang¹, K. Froom², C. Reis², P. Applegate³, R. Applegate², R. D. Martin², J. Zhang⁴

¹Anesthesiology, Physiology, Loma Linda University, Loma Linda, California,

²Anesthesiology, Loma Linda University, Loma Linda, California, ³Cardiology, Loma Linda University, Loma Linda, California, ⁴Anesthesiology, Physiology, Neurosurgery, Loma Linda University, Loma Linda, California

S-159 LARGE SCALE NETWORK LEVEL ANALYSIS OF DEXMEDETOMIDINE INDUCED SEDATION.

J. Hashmi¹, M. Loggia², E. N. Brown³, O. Akeju⁴

¹Department of Anesthesia, Pain Management and Perioperative Medicine,

Dalhousie University, Halifax, Nova Scotia, Canada, ²Department of Radiology, Massachusetts General Hospital, Boston, Massachusetts,

³Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ⁴Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-160 EEG BURST SUPPRESSION LEADS TO AN INCREASED AMPLITUDE OF THE MEDIAN NERVE SOMATOSENSORY EVOKED POTENTIAL UNDER PROPOFOL BUT NOT UNDER SEVOFLURANE

S. Senpolat¹, A. Bouhiouf¹, D. Jordan², A. Szelenyi³, G. Schneider¹

¹Anesthesiology, Helios Klinikum Wuppertal, Wuppertal, Germany,

²Anesthesiology, Klinikum rechts der Isar, Technische Universität München, Munich, Germany, ³Department of Neurosurgery, Universitätsklinikum Düsseldorf, Düsseldorf, Germany

Pain Mechanisms 1

Abstracts in Poster Discussion Round: S-188, S-189, S-191

4:30 pm - 6:00 pm

PR01-13

Poster Moderator: R. Ganta, MD, FRCA, University of Oklahoma, Oklahoma City, Oklahoma

S-188 EFFECTS OF PREGABALIN ON THE HYPERPOLARIZATION-ACTIVATED MIXED CATION CURRENT, I(H), IN HCN2-EXPRESSING CHO CELLS AND RAT THALAMOCORTICAL NEURONS

I. Putrenko¹, E. Accili², S. K. Schwarz¹

¹Department of Anesthesiology, Pharmacology & Therapeutics, The University of British Columbia, Vancouver, British Columbia, Canada,

²Department of Cellular & Physiological Sciences, The University of British Columbia, Vancouver, British Columbia, Canada

S-189 AMITRIPTYLINE REVERSES THE ATTENUATION OF NOXIOUS STIMULUS-INDUCED ANALGESIA AFTER NERVE INJURY IN RATS

H. Matsuoka, S. Saito, H. Obata

Anesthesiology, Gunma University Graduate School of Medicine, Maebashi, Japan

S-191 THE PHARMACOKINETICS AND ANTI-HYPERALGESIC EFFICACY OF THE ORALLY ADMINISTERED MGLU5 ANTAGONIST FENOBAM IN A HUMAN EXPERIMENTAL PAIN MODEL

L. F. Cavallone¹, M. C. Montana¹, K. Frey¹, D. Kallogjeri², E. Kharasch¹, R. W. Gereau¹

¹Anesthesiology, Washington University in St. Louis, St. Louis, Missouri,

²Otolaryngology, Washington University in St. Louis, St. Louis, Missouri

General Physical Posters

Sleep Medicine 1

Abstracts in Poster Discussion Round: S-329 – S-336

4:30 pm - 6:00 pm

PR01-14

Poster Moderator: S. Jones, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-329 COMPARISON OF PERIOPERATIVE COMPLICATIONS BETWEEN HIGH STOP-BANG SCORE (>3) AND LOW STOP-BANG SCORE (0-2) PATIENTS. A SYSTEMATIC REVIEW AND META-ANALYSIS

M. Nagappa¹, F. Chung²

¹Department of Anesthesiology and Preoperative Medicine, London Health Science Centre, St. Joseph's and University Hospital, University of Western Ontario, London, Ontario, Canada, ²Department of Anesthesiology, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada

S-330 DIAGNOSIS AND TREATMENT OF OBSTRUCTIVE SLEEP APNEA DURING PREGNANCY, A SYSTEMATIC REVIEW

M. Nagappa¹, H. Abdullah², N. Siddiqui³, F. Chung⁴

¹Department of Anesthesiology and Preoperative Medicine, London Health Science Centre, St. Joseph's and University Hospital, University of Western Ontario, London, Ontario, Canada, ²Department of Anesthesiology, Singapore General Hospital, Duke-NUS Medical School, Singapore, Singapore, ³Department of Anesthesiology, Mount Sinai Hospital, Toronto, Toronto, Ontario, Canada, ⁴Department of Anesthesiology, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada

S-331 UNDERSTANDING PHENOTYPES OF OBSTRUCTIVE SLEEP APNEA: APPLICATIONS IN ANESTHESIA, SURGERY AND PERIOPERATIVE MEDICINE – A LITERATURE REVIEW

Y. Subramani¹, M. Singh², J. Wong³, F. Chung⁴

¹Anesthesiology, Toronto Western Hospital, Toronto, Ontario, Canada, ²Department of Anesthesia, Toronto Western Hospital, Toronto, Ontario, Canada, ³Anesthesia, University of Toronto, University Health Network, Toronto, Ontario, Canada, ⁴Anesthesiology, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada

S-332 ANESTHETIC CONSIDERATIONS FOR PATIENTS WITH CONGENITAL CENTRAL HYPOVENTILATION SYNDROME: A SYSTEMATIC REVIEW OF THE LITERATURE

S. M. Basu¹, F. Chung², J. Wong³

¹Department of Anesthesia, Toronto Western Hospital, Toronto, Ontario, Canada, ²Department of Anesthesia, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada, ³Anesthesia, University of Toronto, University Health Network, Toronto, Ontario, Canada

S-333 IMPROVEMENT OBSERVED IN HOME SLEEP TESTING PARAMETERS IN AMBULATORY ORTHOPEDIC SURGICAL PATIENTS WITH AND WITHOUT OBSTRUCTIVE SLEEP APNEA: A PROSPECTIVE OBSERVATIONAL STUDY

A. J. Hudson¹, R. Walter², J. Flynn³, V. Capaldi², M. Rodgers², K. Sheikh², C. Lettieri²

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S-334 DOES SEVERITY OF OBSTRUCTIVE SLEEP APNEA AFFECT POSTOPERATIVE COGNITION?

M. M. Magsaysay¹, S. Kinjo¹, E. Lim²

¹Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California, ²Office of Biostatistics & Quantitative Health Sciences, University of Hawaii John A. Burns School of Medicine, Honolulu, Hawaii

S-335 DIFFERENCE BETWEEN WRIST AND ANKLE ACTIGRAPHY TO ESTIMATE SLEEP-WAKE CYCLE IN CRITICALLY-ILL PATIENTS

S. Principe¹, N. C. Vigo², M. M. Lim³, K. B. Weymann⁴, S. A. Shea⁵, M. M. Treggiari⁶

¹School of Medicine, University of North Carolina, Chapel Hill, North Carolina, ²School of Medicine, OHSU, Portland, Oregon, ³Medicine, Neurology and Behavioral Neuroscience, Oregon Health & Science University, Portland, Oregon, ⁴School of Nursing, Oregon Health & Science University, Portland, Oregon, ⁵Oregon Institute of Occupational Health Sciences, Oregon Health & Science University, Portland, Oregon, ⁶Anesthesiology & Perioperative Medicine, Oregon Health & Science University, Portland, Oregon

S-336 POSTOPERATIVE OXYGEN THERAPY: AN EFFECTIVE THERAPY FOR PATIENTS WITH OBSTRUCTIVE SLEEP APNEA

J. Wong¹, M. Singh¹, P. Liao¹, S. Islam¹, M. Andrawes², W. Kang¹, F. Chung¹

¹Anesthesia, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada, ²Anesthesia, University of Toronto, Toronto, Ontario, Canada

Medically Challenging Cases ePosters

Medically Challenging Cases 1
Abstracts in Poster Discussion Round:
MC-1, MC-4 - MC-6
9:30 am - 11:00 am Monitor 1

MCC01-01

Poster Moderator: **C. Ing, MD**, Columbia University, New York, New York

MC-1 PARKINSONISM HYPERPYREXIA SYNDROME DURING DEEP BRAIN STIMULATION SURGERY: A CASE REPORT

J. D. Walch, *A. L. Talbott, J. Gardner*

Anesthesiology, Wake Forest Baptist Medical Center, Winston-Salem, North Carolina

MC-4 MANAGEMENT OF A MASSIVE VENOUS AIR EMBOLISM DURING AN AWAKE DEEP BRAIN STIMULATOR PLACEMENT

B. D. Heifets, *A. K. Aggarwal, R. Jaffe*

Anesthesiology, Stanford University, Stanford, California

MC-5 A CASE OF PATIENT WITH NEUROMYOTONIA UNDERGOING GENERAL ANESTHESIA FOR SURGERY

S. Lee, *S. J. Iyer*

Women's Anesthesia, KK Women's and Children's Hospital, Singapore, Singapore

MC-6 ACETAZOLAMIDE-INDUCED SEVERE METABOLIC ACIDOSIS IN A PATIENT UNDERGOING CRANIOTOMY

J. Diep¹, *K. Dandu², Y. Gubenko¹, A. Zaslavsky¹*

¹Anesthesiology, Rutgers New Jersey Medical School, Newark, New Jersey, ²Otolaryngology, Rutgers New Jersey Medical School, Newark, New Jersey

Medically Challenging Cases 2
Abstracts in Poster Discussion Round:
MC-7, MC-8 – MC-10, MC-12
9:30 am - 11:00 am Monitor 2

MCC01-02

Poster Moderator: **M. Dworschak, MD, MBA**, Medical University of Vienna, Vienna, Austria

MC-7 ANESTHETIC MANAGEMENT OF A PARTURIENT WITH AN ANOMALOUS VENA CAVA RETURN TO THE LEFT ATRIUM

J. Tsai, *A. A. Darais, A. N. farag*

Department of Anesthesiology, Texas Tech University Health Science Center, Lubbock, Texas

MC-8 ECLAMPSIA AND REFRACTORY, SEVERE THROMBOCYTOPENIA: THE VITAL ROLE OF UTERINE TONE IN PREVENTING POSTPARTUM HEMORRHAGE

B. Kook, *K. L. Kohorst, M. Richardson*

Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

MC-10 ANESTHESIA MANAGEMENT OF A PREGNANT PATIENT WITH MARFAN SYNDROME AND PROGRESSIVE AORTIC ROOT DILATION

M. R. Fuertes¹, *J. Ramanathan¹, L. Cooper²*

¹Anesthesia, University of Tennessee Health Sciences Center, Memphis, Tennessee, ²Anesthesiology, University of Tennessee Health Science Center, Memphis, Tennessee

MC-11 EMERGENCY PRETERM CESAREAN SECTION COMPLICATED BY HEART AND RESPIRATORY FAILURE

J. Jones, *R. S. Gill*

Anesthesiology, University of Tennessee Health Science Center, Memphis, Tennessee

MC-12 SUCCESSFUL NEURAXIAL ANESTHESIA FOR CESAREAN DELIVERY IN A PATIENT WITH SEVERE ORAL AND NECK ARTERIOVENOUS MALFORMATIONS

J. Diep¹, *K. Dandu², A. J. Gonzalez-Fiol¹*

¹Anesthesiology, Rutgers New Jersey Medical School, Newark, New Jersey, ²Otolaryngology, Rutgers New Jersey Medical School, Newark, New Jersey

Medically Challenging Cases ePosters

Medically Challenging Cases 3
Abstracts in Poster Discussion Round: MC-14 – MC-20
1:00 pm - 2:30 pm Monitor 3

MCC01-03

Poster Moderator: R. S. Hannallah, MD, Children's National Medical Center, Washington, DC

MC-14 IT IS JUST A FRENULECTOMY

L. A. Alexander, *J. Kynes, E. B. Penn, M. Newton*

Anesthesiology, Vanderbilt University, Nashville, Tennessee

MC-15 TWO PATIENTS, ONE BODY: WOULD YOU BE READY?

R. S. Patel

Department of Anesthesiology, University of Florida College of Medicine Jacksonville, Jacksonville, Florida

MC-16 ANESTHETIC APPROACH TO A DOUBLE AORTIC ARCH AS A CAUSE FOR STRIDOR

J. P. Kho, *F. Ruiz*

Pediatric Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin

MC-17 COMPLEX CRANIOSYNOSTOSIS SURGERY IN A CHILD WITH CYANOTIC UNIVENTRICULAR CIRCULATION AND PULMONARY HYPERTENSION

D. F. Chau, *D. Carvalho, C. Munoz*

Anesthesiology, Children's Hospital of The King's Daughters, Norfolk, Virginia

MC-18 TREATMENT OF POST-DURAL PUNCTURE HEADACHE (PDPH) WITH SPHENOPALATINE GANGLION BLOCK (SPGB) IN A PEDIATRIC PATIENT W/ CERVICAL SYRINGOHYDROMYELIA PRESENTING W/ ACUTE ALTERED MENTAL STATUS (AMS) S/P VACCINATION SERIES VS TIC BOURNE INFECTION

P. Patel, S. Shah, S. Cohen

Department of Anesthesiology & Pain Management, Rutgers - Robert Wood Johnson Medical School, New Brunswick, New Jersey

MC-19 T WAVE DEGENERATION FOLLOWING INDUCTION: ANESTHETIC CONSIDERATIONS IN TIMOTHY SYNDROME

B. L. Willer, *C. Diaz*

Anesthesiology, Medical College of Wisconsin/Children's Hospital of Wisconsin, Milwaukee, Wisconsin

MC-20 CONGENITAL SUBGLOTTIC STENOSIS IN A CHILD WITH MENKES KINKY HAIR SYNDROME

A. LeFevre¹, M. A. Evans², V. O'Reilly-Shah¹

¹Department of Anesthesiology, Division of Pediatric Anesthesiology, Emory University School of Medicine, Atlanta, Georgia, ²Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia

Medically Challenging Cases 4
Abstracts in Poster Discussion Round: MC-22 – MC-25
1:00 pm - 2:30 pm Monitor 1

MCC01-04

Poster Moderator: C. Paisansathan, MD, University of Chicago at Illinois, Chicago, Illinois

MC-22 ANESTHETIC MANAGEMENT OF HYBRID REPAIR OF THORACOABDOMINAL AORTIC ANEURYSM

T. Shen, *J. Lee, C. Tan, R. Kalman*

Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

MC-23 HIP ARTHROPLASTY IN A 48 YEAR OLD PATIENT WITH UNREPAIRED TETRALOGY OF FALLOT

R. Desai, *M. Pretorius*

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee,

MC-24 PERFORATION OF GASTROESOPHAGEAL JUNCTION RELATED TO PERIOPERATIVE TRANSESOPHAGEAL ECHOCARDIOGRAPHY IN CARDIAC SURGERY

A. Ito, *K. Imamura, K. Ushijima*

Anesthesiology, Kurume University School of Medicine, Kurume, Japan

Medically Challenging Cases ePosters

MCC01-04, continued

MC-25 ACUTE LOWER EXTREMITY WEAKNESS AND PAIN REQUIRING POSTERIOR SPINE INSTRUMENTATION AND FUSION IN HEARTMATE II LVAD PATIENT

J. Huffmyer, D. Colquhoun

Anesthesiology, University of Virginia Health System, Charlottesville, Virginia

Medically Challenging Cases 5

Abstracts in Poster Discussion Round: MC-26 – MC-29, MC-31
2:45 pm - 4:15 pm Monitor 2

MCC01-05

Poster Moderator: M. Hollmann, MD, PhD, DEAA, Academic Medical Centre, Amsterdam, Netherlands

MC-26 ANESTHETIC MANAGEMENT OF GRAVID PATIENT WITH FACTOR X DEFICIENCY

P. Lahsaei¹, J. Dolak²

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MC-27 MIGRATION OF EPIDURAL CATHETERS AND EMERGENCY CESAREAN SECTION: A CASE FOR TEST DOSE!

D. Gray, T. N. Trinh, A. Khoury, N. Sam, S. Vinta, R. Vadhera

Anesthesiology, University of Texas Medical Branch, Galveston, Texas

MC-28 ANESTHESIA MANAGEMENT OF VON HIPPEL LINDAU (VHL) DISEASE DURING PARTURITION

K. Ng

Anesthesiology, Kaiser Permanente, Walnut Creek, California

MC-29 ANESTHETIC MANAGEMENT OF SPINAL MUSCLE ATROPHY DURING PREGNANCY

S. Bahadur, Z. Patel

Anesthesiology, Georgia Regents University, Augusta, Georgia

MC-31 EPIDURAL ANALGESIA FOR VAGINAL DELIVER IN A PARTURIENT WITH ARNOLD-CHIARI TYPE I MALFORMATION AND SEVERE HEADACHE

B. S. Kallenberger, R. S. McKay, H.H. Nguyen

Anesthesiology, University of Kansas School of Medicine-Wichita, Wichita, Kansas

Medically Challenging Cases 6

Abstracts in Poster Discussion Round: MC-33 – MC-37
2:45 pm - 4:15 pm Monitor 3

MCC01-06

Poster Moderator: J. White, MD, University of Florida, Gainesville, Florida

MC-33 ECMO FOR REPAIR OF TRACHEAL INJURY DURING TRANSHIATAL ESOPHAGECTOMY

S. M. Arnold, L. Nunez, L. Fermin

Anesthesiology, Jackson Memorial Health System, Miami, Florida

MC-34 THE CAN INTUBATE, CANNOT VENTILATE SCENARIO: A CASE OF RAPIDLY EVOLVING MANAGEMENT OF DIFFICULT VENTILATION SECONDARY TO BRONCHIAL CLOT

C. Song¹, V. O'Reilly-Shah²

¹Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia, ²Department of Anesthesiology, Division of Pediatrics, Emory University School of Medicine, Atlanta, Georgia

MC-35 AIRWAY MANAGEMENT IN A PATIENT WITH A TRACHEAL CUTANEOUS ESOPHAGEAL FISTULA

J. Quevreaux¹, C. J. Hayhurst²

¹Anesthesiology, Vanderbilt University, Nashville, Tennessee, ²Anesthesia Critical Care, Vanderbilt University Medical Center, Nashville, Tennessee

MC-36 MACROGLOSSIA FOLLOWING POSTERIOR CRANIAL FOSSA SURGERY

L. N. Vitale

Pediatric Anesthesiology, University of Michigan, Ann Arbor, Michigan

MC-37 DIFFICULT AIRWAY MANAGEMENT IN A PATIENT UNDERGOING RESECTION OF A PHEOCHROMOCYTOMA

S. K. Virani, B. Fiza

Department of Anesthesiology, University of Michigan Health System, Ann Arbor, Michigan

Medically Challenging Cases ePosters

Medically Challenging Cases 7
Abstracts in Poster Discussion Round:
MC-39 – MC-44, MC-122
4:30 pm - 6:00 pm Monitor 1

MCC01-07

Poster Moderator: **M. Hollmann, MD, PhD, DEAA**, Academic Medical Centre, Amsterdam, Netherlands

MC-39 NON-SURGICAL TREATMENT OF PAINFUL FIFTH TOE NEUROMA WITH INTRATUMORAL INJECTION OF AUTOLOGOUS PLATELET RICH PLASMA

S. Mantha

Interventional Pain Management, Mantha's Pain Clinic, Hyderabad, India

MC-40 ACETAZOLAMIDE - UTILITY IN REFRACTORY HEADACHES

T. Sparkle, G. J. Rakkar, J. H. Mehta

Anesthesiology, University of Texas Health Science Center Houston, Houston, Texas

MC-41 A SEVERE CASE OF TAPENTADOL WITHDRAWAL

P. de Luna¹, M. Hanna¹, T. Tran²

¹Anesthesiology, Johns Hopkins Hospital, Baltimore, Maryland,

²Anesthesiology and Critical Care Medicine, Johns Hopkins University, Baltimore, Maryland

MC-42 LIDOCAINE INFUSION TREATMENT FOR TRIGEMINAL NEURALGIA RELATED TO VERTEBROBASILAR DOLICHOECTASIA: PAIN CONTROL APPLICATION TO A REFRACTORY PAIN COMPLEX

T. T. Tran¹, D. I. Smith²

¹Anesthesiology, University of Rochester Medical Center, Rochester, New York, ²Anesthesiology, University of Rochester School of Medicine, Rochester, New York

MC-43 LOW DOSE OUTPATIENT KETAMINE INFUSION FOR THE TREATMENT OF COMPLEX REGIONAL PAIN SYNDROME IMPROVES FUNCTION

N. M. Hollis, J. Gellis

Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

MC-44 SPONTANEOUS INTRACRANIAL HYPOTENSION SUCCESSFULLY TREATED WITH AN EPIDURAL BLOOD PATCH

J. Tsai, A. A. Darais, A. N. Farag

Department of Anesthesiology, Texas Tech University Health Sciences Center, Lubbock, Texas

MC-122 HIV NEUROPATHY PAIN RELIEVED WITH LUMBAR SYMPATHETIC BLOCKADE

A. Haque

Pain Medicine, University of Vermont, Burlington, Vermont

Medically Challenging Cases 8
Abstracts in Poster Discussion Round:
MC-45 – MC-50, MC-100, MC-144
4:30 pm - 6:00 pm Monitor 2

MCC01-08

Poster Moderator: **M. Enomoto, MD**, Oregon Health and Science University, Portland, Oregon

MC-45 VICKS VAPORUB® INTOXICATION: AN UNUSUAL PRESENTATION OF MULTIORGAN FAILURE

J. Marino-Nieto, I. T. Cordoba Torres, H. B. Barkin, M. Cobas

Department of Anesthesiology, Perioperative Medicine and Pain Management, University of Miami, Leonard M. Miller School of Medicine, Miami, Florida

MC-46 PERICARDIAL THROMBUS FORMATION AFTER AORTIC AND MITRAL VALVE REPLACEMENT CAUSING ACUTE TAMPONADE PHYSIOLOGY

B. T. Wanta, R. K. Patch, D. Wetzel

Department of Anesthesiology, Mayo Clinic, Rochester, Minnesota

MC-47 CRISIS AVERTED: MANAGEMENT OF ACUTE BIVENTRICULAR FAILURE DUE TO ADRENAL INSUFFICIENCY

K. L. Koniuch¹, A. Longhini², A. Al-Qamari¹

¹Anesthesiology, Northwestern Memorial Hospital, Chicago, Illinois,

²Anesthesiology, Northwestern, Chicago, IL.

Medically Challenging Cases ePosters

MCC01-08, continued

MC-48 ANTI NDMA RECEPTOR ENCEPHALITIS

D. Mueller, R. Parker, A. B. King

Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

MC-49 TANDEMHEART AS A BRIDGE TO CORONARY ARTERY BYPASS GRAFTING AFTER OUT-OF-HOSPITAL CARDIAC ARREST AND FAILED PERCUTANEOUS CORONARY INTERVENTION

C. A. Gray, K. Tyson

Anesthesiology, Temple University Hospital, Philadelphia, Pennsylvania

MC-50 PROPYLENE GLYCOL TOXICITY WITH PENTOBARBITAL INFUSION FOR TREATMENT OF REFRACTORY NON-CONVULSIVE STATUS EPILEPTICUS

S. Eleswarpu, B. Kook, B. D. Alvis, R. Neeley, N. Ashby

Anesthesiology, Vanderbilt Medical Center, Nashville, Tennessee

MC-100 OVERHEATING OF A RAPID INFUSER DURING MASSIVE TRANSFUSION

N. A. Ferrero, N. Duggal, B. Fiza

Anesthesiology, University of Michigan, Ann Arbor, Michigan

MC-144 CARDIAC TAMPONADE AND VENTRICULAR TEAR IN A PATIENT WITH MYXEDEMA COMA: IMPLICATIONS FOR ANESTHETIC AND PERIOPERATIVE CRITICAL CARE MANAGEMENT

H. B. Barkin¹, S. AbdelFattah², G. Garcia³, H. Goldman³

¹Department of Anesthesiology, Perioperative Medicine and Pain Management, University of Miami, Leonard M. Miller School of Medicine, Miami, Florida, ²Department of Anesthesiology and Critical Care Medicine, Mount Sinai Medical Center, Miami Beach, Florida, ³Department of Anesthesiology, Mount Sinai Medical Center, Miami Beach, Florida

Scholars' ePosters

Critical Care 1

Abstracts in Poster Discussion Round: S-418 – S-422, S-473
9:30 am - 11:00 am Monitor 4

SCH01-01

Poster Moderator: T. Angelotti, MD, PhD, Stanford University School of Medicine, Stanford, California

S-418 GOAL DIRECTED EARLY MOBILIZATION REDUCES ICU LENGTH OF STAY AND IMPROVES FUNCTIONAL MOBILITY: AN INTERNATIONAL MULTI CENTER, RANDOMIZED, CONTROLLED TRIAL (SOMS TRIAL)

S. J. Schaller¹, K. Waak², T. Edrich³, J. M. Walz⁴, M. Blobner⁵, M. Eikermann⁶

¹Klinik fuer Anaesthesiologie, Klinikum rechts der Isar der TUM, Munich, Germany, ²Department of Physical and Occupational Therapy, Massachusetts General Hospital, Boston, Massachusetts, ³Abteilung für Anästhesie und operative Intensivmedizin, Klinikum Landkreis Erding, Paracelsus Medical Univ, Erding, Germany, ⁴Department of Anesthesiology and Perioperative Medicine, UMass Memorial Healthcare, Worcester, Massachusetts, ⁵Klinik für Anaesthesiologie, Technische Universität München, Munich, Germany, ⁶Anesthesia, Critical Care & Pain Medicine, MGH, Boston, Massachusetts

S-419 CONTRIBUTION OF MITOCHONDRIAL OXIDATIVE STRESS IN THE FORMATION OF ENDOTHELIAL-DERIVED MICROVESICLES

J. K. Freed¹, M. Durand², B. Hoffmann³, J. Densmore⁴, A. Greene⁵, D. Gutterman³

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S-420 REVERSAL OF BURN INJURY-INDUCED INFLAMMATORY RESPONSES AND MUSCLE WASTING BY A NOVEL TARGET, THE NICOTINIC 7ACHRS IN MICE

S. Kashiwagi¹, M. A. Khan², S. Yasuhara¹, M. Kaneki², J. Martyn³

¹Research, Shriners Hospital for Children Boston, Boston, Massachusetts, ²Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ³Department of Anesthesia, Critical Care and Pain Medicine, Mass. General Hospital, Boston, Massachusetts

S-421 PREVALENCE OF SPIRITUAL NEEDS AMONG CRITICALLY ILL ADULTS AND THEIR FAMILY MEMBERS

J. Kweku¹, M. Kinnison², S. Singh¹, R. A. Aslakson¹

¹Anesthesiology and Critical Care Medicine, The Johns Hopkins School of Medicine, Baltimore, Maryland, ²Hospice and Palliative Medicine, The Johns Hopkins School of Medicine, Baltimore, Maryland

S-422 CARDIO-CEREBRAL SIGNAL COMPLEXITY CORRELATES WITH OUTCOME 6 HOURS AFTER ICU ADMISSION FOR SEVERE TRAUMATIC BRAIN INJURY

L. Gao¹, P. Smielewski², M. Czornyka², A. A. Ercole³

¹Anesthesia, Massachusetts General Hospital, Boston, Massachusetts, ²Department of Clinical Neurosciences, University of Cambridge, Cambridge, United Kingdom, ³Anaesthesia, University of Cambridge, Cambridge, United Kingdom

S-473 COMPLICATIONS OF TRAUMA PATIENTS ADMITTED TO LEVEL 1 AND 2 TRAUMA HOSPITALS IN THE UNITED STATES

M. Prin¹, G. Li²

¹Anesthesiology & Critical Care, Columbia University, New York, New York, ²Anesthesiology, Columbia University, New York, New York

Anesthetic Pharmacology 1

Abstracts in Poster Discussion Round: S-405 – S-409
9:30 am - 11:00 am Monitor 5

SCH01-02

Poster Moderator: R. Craft, MD, University of Tennessee, Knoxville, Tennessee

S-405 INHIBITION OF FREE FATTY ACID RECEPTOR GPR40 ABOLISHES CARDIOPROTECTION CONFERRED BY INTRALIPID IN TWO RODENT MODELS OF BUPIVACAINE CARDIOTOXICITY AND ISCHEMIA REPERFUSION INJURY

S. Umar, J. Li, P. Partownavid, A. Mahajan, M. Eghbali

Anesthesiology and Perioperative Medicine, University of Southern California, Los Angeles, Los Angeles, California

S-406 VALIDATION OF ANESTHETIC BINDING SITES WITHIN THE GABAA RECEPTOR VIA IN SILICO DOCKING SCORES OF PROPOFOL DERIVATIVES AND NONIMMOBILIZER CONTROLS

V. Fahrenbach

Anesthesia, Stanford University School of Medicine, Stanford, California

Scholars' ePosters

SCH01-02, continued

S-407 THE IMPACT OF INTRAOPERATIVE NITROUS OXIDE ON PATIENT-CENTERED OUTCOMES AND HOSPITAL UTILIZATION

K. Ruscic¹, S. Grabitz¹, T. Kurth², M. Eikermann¹

¹Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ²Institute of Public Health, Charité Universitätsmedizin Berlin, Berlin, Germany

S-408 TOP DOWN MASS SPECTROMETRY OF THE BETA-3 HOMOPENTAMERIC GABA RECEPTOR

W. W. Cheng¹, J. Bracamontes¹, S. Wang², C. G. Nichols², A. S. Evers¹

¹Department of Anesthesiology, Washington University, Saint Louis, Missouri, ²Department of Cell Biology and Physiology, Washington University, Saint Louis, Missouri

S-409 AGE DEPENDENT TRENDS IN ANESTHETIC ADMINISTRATION, AND THE AGE DEPENDENT DECREASE IN MAC: A SINGLE CENTER RETROSPECTIVE STUDY AND REGRESSION ANALYSIS OF PUBLISHED STUDIES

M. Berger, K. Ni, M. Cooter

Anesthesiology, Duke University Medical Center, Durham, North Carolina

**Pain Medicine 1 & Regional Anesthesia 1
Abstracts in Poster Discussion Round:
S-442 – S-443, S-445, S-465 – S-466
9:30 am - 11:00 am Monitor 6**

SCH01-03

Poster Moderator: C. B. Mantilla, MD, PhD, Mayo Clinic, Rochester, Minnesota

S-442 THE ANALGESIC EFFECTS OF DOPAMINE IN MICE

N. E. Taylor¹, J. Pei¹, K. Vlasov¹, J. A. Guidera¹, J. T. Lee², K. Solt¹, E. N. Brown¹

¹Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ²Brain and Cognitive Sciences, Massachusetts Institute of Technology, Boston, Massachusetts

S-443 LOW-DOSE KETAMINE INFUSIONS FOR ACUTE PAIN MANAGEMENT OF BURN PATIENTS

D. Amaro-Driedger¹, D. Morse¹, P. Patel², T. Huzar³, J. Mehta²

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²Anesthesiology, McGovern Medical School at UTHealth, Houston, Texas,

³Surgery, McGovern Medical School at UTHealth, Houston, Texas

S-445 EXPLORING THE ROLE OF AYURVEDA IN ENHANCING CLINICAL PRACTICE AND PHARMACOTHERAPY IN PAIN MEDICINE

H. Prabhakar¹, M. M. Mathpati², I. L. Chen¹

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S-465 DOES NEURAXIAL ANESTHESIA REDUCE SURGICAL SITE INFECTION FOLLOWING KNEE AND HIP ARTHROPLASTY?

A. Zorrilla-Vaca¹, M. C. Grant¹, V. Mathur¹, J. Li², C. Wu¹

¹Department of Anesthesiology and Critical Care Medicine, The Johns Hopkins Hospital, Baltimore, Maryland, ²Department of Anesthesiology, Yale University, New Haven, Connecticut

S-466 A META-ANALYSIS ON THE CLINICAL OCCURRENCE ON SEPTIC MENINGITIS AFTER SPINAL AND EPIDURAL ANESTHESIA

A. Zorrilla-Vaca¹, L. L. Maragakis², R. Healy¹, L. Rivera-Lara³, M. A. Mirski¹

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Moderated Poster Discussion Sessions ■ Sunday, May 22

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General Physical Posters

Anesthetic Pharmacology 2
Abstracts in Poster Discussion Round: S-40 – S-45
8:00 am - 9:30 am

PRO2-15

Poster Moderator: I. Hilmi, MB ChB, FRCA, University of Pittsburgh, Pittsburgh, Pennsylvania

S-40 LIDOCAINE ALTERS MIGRATION AND TRPM7 CHANNEL EXPRESSION OF Human A549 LUNG CANCER CELLS

S. Chakraborty¹, C. Xiao², J. P. Dilger², J. Lin²

¹Department of Anesthesiology, Stony Brook Medicine, Stony Brook Medicine, New York, ²Department of Anesthesiology, Stony Brook University Health Sciences Center, Stony Brook, New York

S-41 CONCORDANCE OF SUBSTITUTED TRYPTOPHAN SENSITIVITY VS. SUBSTITUTED CYSTEINE MODIFICATION-PROTECTION WITH ANESTHETIC PHOTOLABELING IN GABAA RECEPTORS

A. Ziemba¹, M. Hotta², D. W. Pierce², A. Nourmahad², A. Szabo², S. A. Forman²

¹Dept of Biomedical Engineering, Rensselaer Polytechnic Institute, Troy, New York, ²Dept of Anesthesia Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-42 OPTIMAL DOSE OF DEXMEDETOMIDINE FOR SEDATION DURING EPIDURAL ANESTHESIA

H. Ri

Anesthesia and Pain Medicine, Pusan National University Yangsan Hospital, Yangsan, Korea, Republic of

S-43 HEMODYNAMIC CHANGES DURING CLOSED-LOOP INDUCTION OF ANESTHESIA

M. Görges¹, N. C. West², S. M. Brodie², K. van Heusden³, G. Dumont³, J. Ansermino², R. N. Merchant²

¹Pediatric Anesthesia Research Team, Child & Family Research Institute, Vancouver, British Columbia, Canada, ²Anesthesiology, Pharmacology & Therapeutics, University of British Columbia, Vancouver, British Columbia, Canada, ³Electrical and Computer Engineering, University of British Columbia, Vancouver, British Columbia, Canada

S-44 ISOFLURANE IMPACTS MELANOMA GROWTH IN MICE IN AN IMMUNE DEPENDENT AND SEX SPECIFIC MANNER

A. Meier¹, E. T. Gross², Y. J. Jung², E. K. Santosa², J. D. Bui²

¹Anesthesiology, University of California San Diego, San Diego, California, ²Pathology, University of California San Diego, La Jolla, California

S-45 OLICERIDINE (TRV130), A NOVEL μ RECEPTOR G PROTEIN PATHWAY SELECTIVE (μ -GPS) MODULATOR, HAS A DIFFERENTIATED PROFILE OF G PROTEIN AND β -ARRESTIN SIGNALING VERSUS OPIOIDS

W. Gowen-MacDonald¹, T. Graczyk², M. Lark¹, C. Cowan¹, T. J. Gan³

¹Biology, Trevena, Inc., King of Prussia, Pennsylvania, ²Biology, Teva Pharmaceuticals, North Wales, Pennsylvania, ³Anesthesiology, Stony Brook University, Stony Brook, New York

Critical Care 1
Abstracts in Poster Discussion Round: S-84 – S-90
8:00 am - 9:30 am

PRO2-16

Poster Moderator: K. Engelhard, MD, PhD, Johannes Gutenberg-Universitaet, Mainz, Germany

S-84 THE ROLE OF PDE4 IN IL-8-DEPENDENT INHIBITION OF CAMP-STIMULATED ALVEOLAR FLUID CLEARANCE IN A MURINE MODEL OF TRAUMA-HEMORRHAGE

B. Wagener, A. Brandon, C. Evans, J. Pittet

Anesthesiology and Perioperative Medicine, University of Alabama at Birmingham, Birmingham, Alabama

S-85 ASSOCIATION BETWEEN PLASMA UCHL1 AND BDNF LEVELS AND DURATION OF DELIRIUM IN THE CRITICALLY ILL

C. J. Hayhurst¹, T. D. Girard², J. L. Thompson³, R. Chandrasekhar³, E. W. Ely⁴, C. G. Hughes⁵

¹Anesthesia Critical Care, Vanderbilt University School of Medicine, Nashville, Tennessee, ²Medicine/Allergy, Pulmonary, and Critical Care Med, Vanderbilt University School of Medicine, Nashville, Tennessee, ³Department of Biostatistics, Vanderbilt University School of Medicine, Nashville, Tennessee, ⁴Department of Medicine, Vanderbilt University School of Medicine, Nashville, Tennessee, ⁵Department of Anesthesiology, Vanderbilt University School of Medicine, Nashville, Tennessee

S-86 THE ENDOCANNABINOID N-ARACHIDONOYL DOPAMINE MODULATES TOLL-LIKE RECEPTOR AGONIST ACTIVATION OF INFLAMMATION IN MICE VIA TRPV1

S. Khakpour, K. Wilhelmsen, J. Hellman

Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California

General Physical Posters

PRO2-16, continued

S-87 COMPARISON OF THE MULTIPLE COAGULATION TEST SYSTEM (MCTSTM) WITH EXISTING COAGULATION TESTS, IN FIVE IN-VITRO MODELS OF COAGULOPATHY

A. Bromberg¹, M. Cirullo², B. J. Cohen¹, M. Kagan³, M. Stohl⁴, M. Reyes-Gil⁵, S. Goldstein⁶

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S-88 EFFECT OF IMMUNOGLOBULIN ON VIRULENCE OF PSEUDOMONAS AERUGINOSA IN VITRO CYTOTOXICITY ASSAY

H. Kato, K. Akiyama, M. Shimizu, M. Kinoshita, S. Hamaoka, Y. Naito, T. Sawa

Anesthesiology, Kyoto Prefectural University of Medicine, Kyoto City, Japan

S-89 MODES OF DEATH IN A JAPANESE PEDIATRIC INTENSIVE CARE UNIT

F. Suzuki¹, M. Takeuchi², K. Tachibana², K. Isaka², K. Kinouchi²

¹Department of Anesthesiology, Osaka Police Hospital, Osaka City, Japan, ²Department of Intensive Care Medicine, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka Prefecture, Japan

S-90 EVALUATION OF A NOVEL NON-INVASIVE VOLUME ASSESSMENT DEVICE CREATED TO OBSERVE THE EFFECTS OF INTRAVASCULAR VOLUME ON VASCULAR WAVEFORM HARMONICS OF HUMAN SUBJECTS: A PROOF OF CONCEPT PILOT STUDY

B. D. Alvis¹, M. Miles², K. Hocking³, S. Eagle⁴

¹Department of Anesthesiology Critical Care Medicine, Vanderbilt Medical Center, Nashville, Tennessee, ²Department of Anesthesiology, Vanderbilt Medical Center, Nashville, Tennessee, ³Biomedical Engineering, Bioengineering, Human Biology, Vanderbilt University, Nashville, Tennessee, ⁴Department of Anesthesiology, Vanderbilt University, Nashville, Tennessee

Obstetric Anesthesiology 1

Abstracts in Poster Discussion Round: S-183 – S-187

8:00 am - 9:30 am

PRO2-17

Poster Moderator: F. Peralta, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois

S-183 RECALL OF RISKS INFORMATION FOR LABOUR EPIDURAL AND CAESAREAN SECTION

K. O. Enohumah

Anaesthetics and Intensive Care, Tameside Hospital NHS Foundation Trust, Manchester, United Kingdom

S-184 INCIDENCE OF PRURITIS IN PREGNANT WOMEN UNDERGOING LOWER SEGMENT CESAREAN SECTION UNDER SPINAL ANAESTHESIA WITH FENTANYL ADDED TO BUPIVACAINE

S. R. Al-Zaabi¹, M. K. Al Tamimi¹, R. K. Manzoor¹, N. Kaul²

¹Anaesthesia, National trauma Center, Khoula hospital, Muscat, Oman, ²Anaesthesia and ICU, Khoula Hospital, Al Harthy Complex, Oman

S-185 ANALYSIS AND COMPARISON BETWEEN TERM VAGINAL DELIVERY AND TERM CESAREAN DELIVERY NEONATAL TEST ASSAYS WITH ESTABLISHMENT OF NORMATIVE DATA

N. Schott¹, J. Waters²

¹Anesthesiology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, ²Anesthesiology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania

S-186 COMPARISON OF CONTINUOUS IV PHENYLEPHRINE VS. NOREPINEPHRINE INFUSION IN PREVENTION OF SPINAL HYPOTENSION DURING CAESAREAN DELIVERY: ASSESSMENT OF HEMODYNAMIC PARAMETERS AND MATERNAL OUTCOMES

M. C. Vallejo¹, O. M. Elzamazzy¹, D. T. Cifarelli¹, A. L. Phelps², A. Attaallah¹, P. Ranganathan¹, P. Heiraty¹

¹Anesthesiology, West Virginia University, Morgantown, West Virginia, ²School of Business, Duquesne University, Pittsburgh, Pennsylvania

S-187 KETOROLAC PREVENTS NAUSEA AND VOMITING RELATED TO UTERINE EXTERIORIZATION DURING CESAREAN SECTION: A RANDOMIZED, CONTROLLED DOUBLE-BLINDED STUDY

S. E. Landa, D. Costa, J. Markley, A. Woglom, Y. Jiang, L. Hormozi

Department of Anesthesia, St. Joseph's Regional Medical Center, Paterson, New Jersey

General Physical Posters

Patient Safety 2
Abstracts in Poster Discussion Round:
S-220 – S-222, S-224 – S-226
8:00 am - 9:30 am

PR02-18

Poster Moderator: J. Ehrenfeld, MD, MPH, Vanderbilt University, Nashville, Tennessee

S-220 EFFECT OF NOISE ON ANESTHESIOLOGIST AUDITORY PROCESSING IN THE OPERATING ROOM

R. Ritchie¹, K. P. Alfonso², M. Cherian¹, M. Bush², R. Jones², J. Weihing³, J. B. Shinn²

¹Anesthesiology, University of Kentucky, Lexington, Kentucky, ²Otolaryngology, University of Kentucky, Lexington, Kentucky, ³Audiology, University of Louisville, Louisville, Kentucky

S-221 DIFFICULTY OF REDUCING CATHETER RELATED BLOODSTREAM INFECTION IN THE INTENSIVE CARE UNIT OF A UNIVERSITY HOSPITAL DESPITE STRICT IMPLEMENTATION OF A PREVENTIVE MEASURE BUNDLE

T. Yorozu¹, K. Moriyama¹, J. Tokumine¹, A. Motoyasu¹, Y. Shiokawa²

¹Anesthesiology, Kyorin University School of Medicine, Tokyo, Japan, ²Neurosurgery, Kyorin University School of Medicine, Tokyo, Japan

S-222 PRODUCTION PRESSURES AMONG ANAESTHESIOLOGISTS IN SINGAPORE

J. Chai

Department of Anaesthesiology, Singapore General Hospital, Singapore, Singapore

S-224 THE INCIDENCE OF INTRAOPERATIVE MAGNETIC RESONANCE IMAGING RELATED ADVERSE EVENTS DURING AWAKE CRANIOTOMY

K. Kamata¹, N. Morioka¹, N. Komayama¹, T. Maruyama², Y. Muragaki², T. Kawamata², M. Ozaki¹

¹Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan, ²Neurosurgery, Tokyo Women's Medical University, Tokyo, Japan

S-225 PNEUMOPERITONEAL AIR ENTRY DURING LAPAROSCOPIC SURGERY WITH VALVE-FREE TROCARS IN PIGS

E. Hermann¹, C. Schaeffer-Reiss², M. Hengen¹, A. Charton³, M. Diana⁴, P. Diemunsch¹

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S-226 OVERNIGHT NON-INVASIVE RESPIRATORY VOLUME MONITORING FOLLOWING PACU DISCHARGE AFTER GENERAL SURGERY

I. Bonney¹, T. Otero², M. McGuire³, F. Zahedi¹, R. Schumann¹

¹Anesthesiology, Tufts Medical Center, Boston, Massachusetts, ²Tufts University School of Medicine, Boston, Massachusetts, ³Clinical, Respiratory Motion, Inc., Waltham, Massachusetts

**Technology, Computing and Simulation,
Equipment Monitoring 2**
Abstracts in Poster Discussion Round: S-345 – S-351, S-353
8:00 am - 9:30 am

PR02-19

Poster Moderator: M. Rice, MD, Vanderbilt University, Nashville, Tennessee

S-345 COMPARISON OF STATISTICAL METHODS FOR METHODS COMPARISON STUDIES WITH REPEATED MEASUREMENTS: A SIMULATION STUDY

K. van Loon¹, B. van Zaane¹, C. J. Kalkman¹, L. M. Peelen²

¹Anesthesiology, University Medical Center Utrecht, Utrecht, Netherlands, ²Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht, Netherlands

S-346 GDT-2D-VISUALIZER: THE DEVELOPMENT OF ON-LINE TWO-DIMENSIONAL SVV-SVI PLOTTING SYSTEM

T. Sawa, K. Akiyama, H. Kato

Anesthesiology, Kyoto Prefectural University of Medicine, Kyoto City, Japan

General Physical Posters

PR02-19, continued

S-347 OBJECTIVE MEASUREMENT OF PAIN PERCEPTION IN LABORING WOMEN

A. Eisenried¹, N. Austin¹, B. Carvalho¹, A. Akhbardeh², D. C. Yeomans¹, A. Z. Tzabazis¹

¹Anesthesiology, Preoperative and Pain Medicine, Stanford University, Stanford, California, ²Ropamedics, San Francisco, California

S-348 TRENDING ABILITY OF CARDIAC OUTPUT MEASUREMENT BY LIDCORAPID™ AND TRANSESOPHAGEAL ECHOCARDIOGRAPHY IN ELECTIVE CARDIAC SURGERY: A COMPARISON WITH THERMODILUTION

J. E. Sagar¹, S. Subramani²

¹Anesthesia, University of Iowa Carver College of Medicine, Iowa City, Iowa, ²Department of Anesthesia, University of Iowa Carver College of Medicine, Iowa City, Iowa

S-349 CLINICAL EVALUATION OF THE VIOS MONITORING SYSTEM - INITIAL REPORT OF A PILOT STUDY

S. Chennapragada¹, V. Verma², A. Patel², M. Cohen³, P. Sistla⁴, K. G. Belani³

¹Cardiology, Care Hospital Foundation, Hyderabad, India, ²Research and Development, Vios Medical, St. Paul, Minnesota, ³Anesthesiology, University of Minnesota, Minneapolis, Minnesota, ⁴Telemedicine, Care Hospital Foundation, Hyderabad, India

S-350 ANOMALY DETECTION THEORY PREDICTS EMERGENCY BLOOD TRANSFUSION AND INTENSIVE CARE UNIT STAY

C. F. Mackenzie¹, L. Lee², S. Yang¹, C. Chang², P. Hu¹

¹Shock Trauma Anesthesiology Research Center, University of Maryland, Baltimore, Baltimore, Maryland, ²Department of Electrical Engineering and Computer Science, University of Maryland, Baltimore County, Baltimore, Maryland

S-351 NON-INVASIVE QUANTITATIVE AIRFLOW MEASUREMENT DEVICE

E. Carroll¹, L. Wierschke¹, J. Elicson¹, J. Kanack¹, N. Amit¹, G. Bilen-Rosas²

¹Biomedical Engineering, University of Wisconsin Madison, Madison, Wisconsin, ²Anesthesiology, University of Wisconsin School of Medicine and Public Health Madison, Madison, Wisconsin

S-353 A NEW LOOK INTO THE TRAIN-OF-FOUR (TOF) RATIO: IS T4/TREF THE BETTER INDICATOR FOR NEUROMUSCULAR RECOVERY?

D. Schmartz¹, A. C. Reis¹, C. Baumann², I. Clerc-Urmes², T. Fuchs-Buder¹

¹Anesthesiology & Intensive Care, CHRU de Nancy, Vandoeuvre-les-Nancy, France, ²ESPRI-BIOBASE Unit - PARC, CHRU de Nancy, Vandoeuvre-les-Nancy, France

Airway Management 2

Abstracts in Poster Discussion Round: S-10 – S-14, S-21
10:30 am - 12:00 pm

PR02-20

Poster Moderator: N. Jagannathan, MD, Lurie Children's Hospital/ Northwestern University, Chicago, Illinois

S-10 A COMPARATIVE STUDY OF THE I-GEL VS AIR-Q SUPRAGLOTTIC AIRWAY DEVICES AS A CONDUIT FOR TRACHEAL INTUBATION WITHOUT THE AID OF FLEXIBLE FIBRESCOPE I ANAESTHETIZED PATIENTS

S. A. Barashidi¹, R. K. Manzoor¹, N. Kaul²

¹Anaesthesia, National Trauma Center, Khoula Hospital, Muscat, Oman, ²Anaesthesia and ICU, Khoula Hospital, Al harthy Complex, Oman

S-11 THE EFFECT OF CRICOID PRESSURE ON APNEIC OXYGEN RESERVE IN ADULT PATIENTS UNDERGOING ENDOTRACHEAL INTUBATION FOR SCHEDULED SURGERY

J. Lenart, E. Cho, B. Clark, G. D. Andrews, R. Applegate

Anesthesiology, Loma Linda University School of Medicine, Loma Linda, California

S-12 OPTOACOUSTIC ASSESSMENT OF ENDOTRACHEAL TUBE (ET) POSITION WITHIN THE TRACHEA

N. Rios¹, P. Ford², N. Ribeiro Marques¹, I. Y. Petrov¹, Y. Petrov¹, D. S. Prough¹, M. Kinsky¹

¹Anesthesiology, The University of Texas Medical Branch, Galveston, Texas, ²Anesthesiology, University of Arizona College of Medicine, Tucson, Arizona

General Physical Posters

PRO2-20, continued

S-13 EFFECT OF HEAD ROTATION ON EFFICIENCY OF FACE MASK VENTILATION IN APNEIC ADULT PATIENTS UNDER GENERAL ANESTHESIA: A PROSPECTIVE RANDOMIZED CROSSOVER STUDY

T. Itagaki¹, J. Oto², Y. Jiang³, J. R. Mountjoy¹, R. M. Kacmarek⁴

¹Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ²Department of Emergency and Critical Care Medicine, The University of Tokushima Graduate School, Tokushima, Japan, ³Department of Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ⁴Respiratory Care, Massachusetts General Hospital, Boston, Massachusetts

S-14 NON-DEPOLARIZING NEUROMUSCULAR BLOCKING AGENTS, REVERSAL, AND RISK OF POSTOPERATIVE PNEUMONIA

J. M. Ehrenfeld¹, M. Terekhov², R. Dmochowski³, B. Martin¹, R. M. Hayes¹, C. Bulka⁴

¹Vanderbilt University, Vanderbilt University, Nashville, Tennessee, ²Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ³Urology, Vanderbilt University Medical Center, Nashville, Tennessee, ⁴Epidemiology, University of Illinois, Chicago, Illinois

S-21 AIRWAYS IN THE MORBIDLY OBESE: CAN DIFFICULT LARYNGOSCOPY BE PREDICTED BY BODY SHAPE?

W. A. Shippam, N. Higgins, A. J. Whelan, M. Margaron

Department of Anesthesia, St. Richard's Hospital, Chichester, United Kingdom

S-92 LOW PULMONARY COMPLIANCE IS PREDICTIVE OF EXTUBATION FAILURE

T. M. Ho, M. Beitzel, W. Whitehead, M. Kinsky

Anesthesiology, University of Texas Medical Branch, Galveston, Texas

S-94 RAB8 GTPASE IS REQUIRED FOR MACROPHAGE EFFEROCYTOSIS AND RESOLUTION OF LUNG INFLAMMATION IN MICE

R. Hu¹, X. Du², D. E. Schwartz², R. O. Dull², G. Hu³, R. Minshall³

¹Biochemistry, Washington University in St Louis, St. Louis, Missouri, ²Anesthesiology, University of Illinois at Chicago, Chicago, Illinois, ³Anesthesiology and Pharmacology, University of Illinois at Chicago, Chicago, Illinois

S-95 DELIRIUM RISK FACTORS IN CRITICALLY ILL CHILDREN

H. A. Smith¹, M. Gangopadhyay², D. Fuchs³, J. L. Thompson⁴, R. Chandrasekhar⁵, E. W. Ely⁶, P. Pandharipande⁷

¹Pediatric Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Child & Adolescent Psychiatry, Columbia University Medical Center, New York, New York, ³Child & Adolescent Psychiatry, Vanderbilt University Medical Center, Nashville, Tennessee, ⁴Department of Biostatistics, Vanderbilt University, Nashville, Tennessee, ⁵Biostatistics, Vanderbilt University School of Medicine, Nashville, Tennessee, ⁶Medicine, Vanderbilt University School of Medicine, Nashville, Tennessee, ⁷Anesthesiology, Division of Critical Care, Vanderbilt University Medical Center, Nashville, Tennessee

S-96 FILLING THE VOID – ADVANCE CARE PLANNING FOR INTENSIVE CARE

R. Taneja¹, L. Lingard², V. Schulz¹, A. Rawal³, K. Bishop², K. Miller², L. Faden²

¹Anesthesia and Perioperative Medicine, University of Western Ontario, London, Ontario, Canada, ²Centre for Education Research and Innovation, University of Western Ontario, London, Ontario, Canada, ³Department of Social Work, University of Western Ontario, London, Ontario, Canada

S-97 ASSOCIATION OF ENDOTHELIAL AND NEUROLOGIC INJURY BIOMARKERS WITH COGNITIVE IMPAIRMENT AFTER CRITICAL ILLNESS

C. G. Hughes¹, T. D. Girard², J. Jackson², J. L. Thompson³, R. Chandrasekhar³, E. W. Ely², P. Pandharipande¹

¹Department of Anesthesiology, Vanderbilt University School of Medicine, Nashville, Tennessee, ²Department of Medicine, Vanderbilt University School of Medicine, Nashville, Tennessee, ³Department of Biostatistics, Vanderbilt University School of Medicine, Nashville, Tennessee

S-91 A PROSPECTIVE OBSERVATIONAL PILOT STUDY OF ICU SEDATION VARIATION USING BISPECTRAL INDEX TO IDENTIFY DIURNAL PATTERNS RELATED TO CHANGE OF NURSING SHIFTS

J. Louro¹, J. J. Ray², X. D. Ruiz², R. R. McNeer¹, R. Dudaryk¹

¹Anesthesiology, University of Miami Miller School of Medicine, Miami, Florida, ²Surgery-Trauma Research, University of Miami, Miami, Florida

PRO2-21

Poster Moderator: H. Morimatsu, MD, Okayama University, Okayama, Japan

Critical Care 2
Abstracts in Poster Discussion Round:
S-91 – S-92, S-94 – S-97
10:30 am - 12:00 pm

General Physical Posters

Economics, Education and Policy 1
Abstracts in Poster Discussion Round: S-114 – S-120, S-122
10:30 am - 12:00 pm

PR02-22

Poster Moderator: T. Yorozu, MD, Kyorin University, Tokyo, Japan

S-114 ANESTHESIA RESIDENTS AWARENESS OF THE CLINICAL LEARNING ENVIRONMENT

M. Wajda, M. Poole, D. Furgiuele, I. Zolnowski, A. Primm, L. Tepfenhardt, S. Kendale

Anesthesiology, New York University, New York, New York

S-115 EVALUATING WORKFLOW UNDERSTANDING FOR PREOPERATIVE ULTRASOUND – A CONSENSUS PROCESS USING A MODIFIED DELPHI METHOD

L. Yeh, R. Amir, M. Montealegre-Gallegos, A. Mashari, J. D. Mitchell, S. Jones, F. Mahmood, R. Matyal

Department of Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts

S-116 IMPLIED IMPACTS ON ATMOSPHERIC RADIATIVE FORCING OF INHALED ANESTHETIC USE IN A COMMUNITY HOSPITAL

N. A. Riegels

Anesthesia, Kaiser Permanente Oakland, Oakland, California

S-117 RATING OBJECTIVE STRUCTURED CLINICAL EXAMS: IT MATTERS HOW (BUT NOT WHO)

A. Rebel¹, R. Isaak², A. DiLorenzo¹, M. M. Schumacher³, M. P. Stiegler², R. M. Schell¹, P. Sloan¹

¹Anesthesiology, University of Kentucky, Lexington, Kentucky,

²Anesthesiology, University of North Carolina, Chapel Hill, North Carolina,

³Behavior Science, University of Kentucky, Lexington, Kentucky

S-118 NORA TURNOVER TIMES: NEITHER HERE NOR THERE

R. D. Urman¹, A. Wu², J. S. Melito³, S. E. O'Donnell⁴, M. H. Tsai⁵

¹Anaesthesia, Brigham and Women's Hospital, Boston, Massachusetts,

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Burlington, Vermont, ⁴Anesthesiology, University of Vermont Medical Center,

Burlington, Vermont, ⁵Department of Anesthesiology; Orthopaedics and

Rehabilitation (by courtesy), University of Vermont College of Medicine,

Burlington, Vermont

S-119 SIMULATION-BASED ASSESSMENT OF IMPROVEMENTS IN COGNITIVE PERFORMANCE IN AN ANESTHESIOLOGY RESIDENCY TRAINING PROGRAM

A. Sidi, T. Vasilopoulos, N. Gravenstein, S. Lamptang

Anesthesiology, University of Florida, Gainesville, Florida

S-120 RACE EFFECT ON TYPE OF ANESTHESIA AND 30-DAYS POST-OPERATIVE OUTCOMES IN PRIMARY TOTAL KNEE AND HIP ARTHROPLASTY: NATIONAL DATABASE ANALYSIS

A. Elsharydah¹, A. Minhajuddin², G. P. Joshi¹

¹Anesthesiology and Pain Management, University of Texas Southwestern Medical Center, Dallas, Texas, ²Department of Clinical Sciences/Biostatistics Division, University of Texas Southwestern Medical Center, Dallas, Texas

S-122 ENHANCING FEEDBACK IN ANESTHESIA RESIDENCY PROGRAMS

J. D. Mitchell¹, D. E. Lee², C. B. Diachun³, A. DiLorenzo⁴, S. Karan⁵, R. M. Schell⁴, C. Ku¹

¹Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts, ²Anesthesiology, University of California, San Diego, San Diego, California, ³Anesthesiology, University of Florida - Jacksonville, Jacksonville, Florida, ⁴Anesthesiology, University of Kentucky, Lexington, Kentucky, ⁵Anesthesiology, University of Rochester, Rochester, New York

Neuroscience in Anesthesiology & Perioperative Medicine 3
Abstracts in Poster Discussion Round: S-101, S-161 – S-167
10:30 am - 12:00 pm

PR02-23

Poster Moderator: G. Crosby, MD, Brigham and Women's Hospital, Boston, Massachusetts

S-101 IMAGING MITOCHONDRIAL REDOX STATUS FOLLOWING BRAIN INJURY USING DIFFUSE OPTICAL SPECTROSCOPY

D. T. Highton¹, P. T. Phan², S. Brigadoi², J. Lai¹, I. Tachtsidis², C. E. Elwell², M. Smith¹

¹Neurocritical Care, National Hospital for Neurology and Neurosurgery, London, United Kingdom, ²Medical Physics and Biomedical Engineering, UCL, London, United Kingdom

General Physical Posters

PR02-23, continued

S-161 ACUTE AND SUBACUTE POSTOPERATIVE PAIN AFTER PARTIAL AND TOTAL MASTECTOMY: PROSPECTIVE ASSOCIATION WITH PSYCHOPHYSICAL AND PSYCHOSOCIAL PROCESSING OF PAIN

K. L. Schreiber¹, N. Zinboonyahgoon², R. R. Edwards¹

¹Department of Anesthesiology, Perioperative and Pain Management, Brigham and Women's Hospital, Boston, Massachusetts, ²Department of Anesthesiology, Oregon Health Sciences University, Portland, Oregon

S-162 ISOFLURANE REDUCES CEREBROVASCULAR DEPRESSION-INDUCED BY SINUSOIDAL GALVANIC STIMULATION IN A RAT MODEL OF VASOVAGAL SYNCOPE

D. W. McBride¹, C. Reis¹, M. Yurashevich², J. Zhang³, R. L. Applegate⁴, J. Tang⁵

¹Department of Basic Sciences, Loma Linda University, Loma Linda, California, ²Department of Anesthesiology, Loma Linda University, Loma Linda, California, ³Neurosurgery, Loma Linda University, Loma Linda, California, ⁴Anesthesiology, Loma Linda University, Loma Linda, California, ⁵Basic Science, Loma Linda University, Loma Linda, California

S-163 THE EFFECT OF ANESTHETIC AGENTS ON MARKERS OF NEUROLOGIC INJURY IN JUVENILE RATS

S. Straesser¹, M. Bruno², H. Alexander², K. Simqu², K. Janesko-Feldman², M. Manole³, T. Drabek¹

¹Anesthesiology, University of Pittsburgh, Pittsburgh, Pennsylvania, ²Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, Pennsylvania, ³Pediatrics, University of Pittsburgh, Pittsburgh, Pennsylvania

S-164 INSUFFICIENT ASTROCYTE-DERIVED BDNF CONTRIBUTES TO PROPOFOL-INDUCED NEURON DEATH THROUGH AKT/GSK3 / MITOCHONDRIAL FISSION PATHWAY IN RATS

Y. Liu, S. Logan, Y. Yan, Z. J. Bosnjak, X. Bai

Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin

S-165 ANESTHESIOLOGISTS CONTRIBUTION TO THE GENERAL VS LOCAL ANESTHESIA CONTROVERSY IN ENDOVASCULAR TREATMENT OF ACUTE ISCHEMIC STROKE

A. E. Abramowicz¹, E. E. Galeano²

¹Anesthesiology, Westchester Medical Center, Valhalla, New York, ²Anesthesiology, Montefiore Medical Center, Bronx, New York

S-166 MORPHINE EFFECTS ON ADULT RAT BRAIN RESTING-STATE NETWORKS: DOES PREVIOUS INFANT EXPOSURE TO MORPHINE MATTER?

M. M. Craig, E. C. Goins, D. Borsook, L. Becerra, D. Bajic

Department of Anesthesiology, Perioperative and Pain Medicine, Boston Children's Hospital, Boston, Massachusetts

S-167 BEYOND KETAMINE FOR PSYCHIATRIC DISEASE: UNRAVELING THE MURINE NEURAL MECHANISMS OF THE EMPATHOGEN MDMA, A NOVEL, RAPID-ONSET SINGLE-SHOT CLINICAL THERAPY FOR POST-TRAUMATIC STRESS DISORDER

B. D. Heifets¹, M. Taylor¹, L. W. Hung², R. C. Malenka²

¹Anesthesiology, Stanford University, Stanford, California, ²Psychiatry, Stanford University, Stanford, California

Perioperative Anesthesia 2
Abstracts in Poster Discussion Round: S-277 – S-284, S-464
10:30 am - 12:00 pm

PR02-24

Poster Moderator: I. Gasanova, MD, PhD, University of Texas Southwestern Medical Center, Dallas, Texas

S-277 SMOKING CESSATION: THE ROLE OF THE ANESTHESIOLOGIST

A. Yousefzadeh¹, F. Chung¹, D. T. Wong¹, D. Warner², J. Wong¹

¹Anesthesia, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada, ²Anesthesiology, Mayo Clinic, Rochester, Minnesota

S-278 LONG TERM GLYCEMIC CONTROL AS A PREDICTOR FOR POST-OPERATIVE LENGTH OF STAY IN DIABETIC PATIENTS UNDERGOING TOTAL KNEE REPLACEMENT SURGERY

G. Y. Lin¹, G. Liew¹, W. Ng², H. R. Abdullah¹

¹Anesthesiology, Singapore General Hospital, Singapore, Singapore, ²Division of Medicine, Singapore General Hospital, Singapore, Singapore

S-279 DOES MANAGEMENT OF ADVANCED DIRECTIVES IN THE PERIOPERATIVE PERIOD MIRROR CLINICAL GUIDELINES?

C. M. Brown¹, J. Yu², A. Winter², T. Wildes¹

¹Anesthesiology, Washington University School of Medicine, Saint Louis, Missouri, ²Surgery, Washington University School of Medicine, St. Louis, Missouri

General Physical Posters

PR02-24, continued

S-280 LIDOCAINE KETAMINE (OPIOID-FREE ANESTHESIA) VERSUS FENTANYL IN HIP ARTHROSCOPY. A RANDOMISED CONTROLLED TRIAL

D. Torres, C. Yen, D. Persico

Anesthesiology, Clinica Santa Maria, Santiago, Chile

S-281 IMPACT OF POSTSURGICAL ANALGESIA INTERVENTION ON HOSPITAL LENGTH OF STAY (LOS), DISCHARGE STATUS, AND HOSPITAL COSTS FOLLOWING TOTAL KNEE ARTHROPLASTY (TKA)

S. Corman¹, T. J. Gan², S. Jiang¹, S. Dagenais³, J. Gonzales⁴

¹Health Economics & Outcomes Research, Pharmerit International, Bethesda, Maryland, ²Department of Anesthesiology, Stony Brook University, Stony Brook, New York, ³Health Outcomes and Value Assessment, Pacira Pharmaceuticals, Inc., Parsippany, New Jersey, ⁴Department of Anesthesiology, University of Colorado, Aurora, Colorado

S-282 RETROGRADE AMNESTIC EFFECT OF MIDAZOLAM

K. G. Palmer¹, M. Alaka¹, A. L. Feldner², A. Rubinstein², N. Kliestik², M. O'Connor², D. Glick²

¹Pritzker School of Medicine, University of Chicago, Chicago, Illinois, ²DACC, University of Chicago, Chicago, Illinois

S-283 HARNESSING THE ELECTRONIC ANESTHESIA RECORD TO MEASURE NON-OPERATIVE OR UTILIZATION

C. Simmons, B. Scott¹, J. Melendez

Anesthesiology, University of Colorado, Aurora, Colorado

S-284 FREQUENCY, SEVERITY AND LOCATION OF POSTOPERATIVE HYPOXEMIA IN PATIENTS WITH NO RESPIRATORY DISEASE

K. Bartels¹, L. C. Jameson¹, A. F. Moss², K. J. Bullard¹, A. Fernandez-Bustamante¹

¹Anesthesiology, University of Colorado SOM, Aurora, Colorado, ²ACCORDS, University of Colorado, Aurora, Colorado

S-464 INCLUSION BODY MYOSITIS AND ANESTHESIA

A. Mortenson¹, J. Sprung¹, J. Watson², T. Weingarten¹

¹Anesthesiology, Mayo Clinic, Rochester, Minnesota, ²Neurology, Mayo Clinic, Rochester, Minnesota

**Cardiovascular Anesthesiology 2
Abstracts in Poster Discussion Round:**

S-61, S-63 – S-65, S-67

1:00 pm - 2:30 pm

PR02-25

Poster Moderator: J. Mitchell, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-61 ACUTE KIDNEY INJURY AFTER CARDIAC SURGERY AMONG PATIENTS WITH AND WITHOUT PRE-EXISTING CHRONIC KIDNEY DISEASE: EFFECTS OF PERIOPERATIVE CRYSTALLOID CHOICE

K. Raghunathan¹, S. L. McCartney², A. Barbeito¹, V. Khangulov³, F. Peyerl³, M. Berger², A. Shaw⁴

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S-63 PERIOPERATIVE GLUCOSE MANAGEMENT DURING CARDIAC SURGERY REDUCES INCIDENCE OF STERNAL WOUND INFECTIONS

M. Ji¹, O. Dowling², L. Shore-Lesserson³

¹Anesthesiology, Hofstra North Shore-LIJ School of Medicine, Hempstead, NY, ²Anesthesiology, North Shore-LIJ Health System, Great Neck, New York, ³Anesthesiology, Hofstra North Shore-LIJ School of Medicine, New Hyde Park, New York

S-64 THE EFFECT OF REMOTE ISCHEMIC PRECONDITIONING ON DELIRIUM AFTER CARDIAC SURGERY

C. H. Brown

Anesthesiology and Critical Care Medicine, Johns Hopkins, Baltimore, Maryland

S-65 COMPARISON OF SEER SONORHEOMETRY WITH ROTATIONAL THROMBOELASTOMETRY AND LABORATORY PARAMETERS IN CARDIAC SURGERY

J. Huffmyer, L. G. Fernandez, C. Haghighian, A. S. Terkawi, D. S. Groves
Anesthesiology, University of Virginia Health System, Charlottesville, Virginia

General Physical Posters

PR02-25, continued

S-67 PREOPERATIVE ASPIRIN AND MAJOR PERIOPERATIVE OUTCOMES IN PATIENTS WITH HYPERTENSION UNDERGOING CARDIAC SURGERY

Q. Ding¹, E. Yuen², H. Liu³, H. Nie¹, L. Yao⁴, R. Morris⁵, J. Sun¹

¹Anesthesiology, Thomas Jefferson University and Hospitals, Philadelphia, Pennsylvania, ²School of Medicine, Thomas Jefferson University and Hospitals, Philadelphia, Pennsylvania, ³Anesthesiology and Pain Medicine, UC Davis Health System, Sacramento, California, ⁴Anesthesiology and Critical Care, Tangdu Hospital, Xian, China, ⁵Cardiothoracic Surgery, Thomas Jefferson University and Hospitals, Philadelphia, Pennsylvania

Economics, Education and Policy 2
Abstracts in Poster Discussion Round: S-121, S-123 – S-129
1:00 pm - 2:30 pm

PR02-26

Poster Moderator: D. Sakata, MD, University of Utah, Salt Lake City, Utah

S-121 OUTCOME PREDICTABILITY AFFECTS ENGAGEMENT AND PERFORMANCE IN HIGH-STAKES SIMULATION

S. T. Samuelson¹, A. Goldberg¹, S. DeMaria²

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S-123 THE UTILITY OF PRE-SPECIFIED MILESTONES IN THE PILOT PHASE OF A LARGE PRAGMATIC CLINICAL TRIAL

A. Mickle¹, M. S. Avidan¹, S. L. McKinnon², H. Maybrier³, M. R. Muench⁴, T. Wildes¹

¹Anesthesiology, Washington University School of Medicine, St. Louis, Missouri, ²Anesthesiology, Washington University School of Medicine, Washington University, Missouri, ³Anesthesiology, Washington University Medical School, St. Louis, Missouri, ⁴Anesthesiology, Washington University School of Medicine, St. Louis, Missouri

S-124 BLIND PALPATION VS ULTRASOUND GUIDED ARTERIAL LINE PLACEMENT

Y. Yeap

Anesthesia, Indiana University School of Medicine, Indianapolis, Indiana

S-125 THE COST OF OPEN CARPAL TUNNEL RELEASE IN THE OPERATING ROOM VERSUS THE OUTPATIENT PROCEDURE ROOM: A TIME-DRIVEN ACTIVITY BASED COSTING APPROACH

C. R. Mayhew¹, J. Martin¹, A. Shafritz², B. K. Tran¹, W. C. Paganelli¹, M. H. Tsai¹

¹Anesthesiology and Pain Medicine, University of Vermont College of Medicine, Burlington, Vermont, ²Orthopaedic Surgery, University of Vermont College of Medicine, Burlington, Vermont

S-126 A DESCRIPTION OF THE LANDSCAPE OF ANESTHESIA CARE IN AN INTEGRATED NATIONAL HEALTH SYSTEM

M. S. Hausman¹, A. Sales²

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S-127 A NOVEL APPROACH TO RANDOMIZATION OF ACGME MILESTONES INTO DAILY ANESTHESIA RESIDENT EVALUATIONS

E. M. Hughes

Pediatric Anesthesia, Vanderbilt University Medical Center, Nashville, Tennessee

S-128 TRAINING ANESTHESIOLOGY CLINICIANS IN EEG-BASED DETERMINATION OF ANESTHETIC DEPTH USING A SHORT MODULE

T. Wildes, T. Stevens, R. Steinhorn, M. Wolfson, M. R. Murphy, M. S. Avidan

Anesthesiology, Washington University School of Medicine, Saint Louis, Missouri

S-129 CASE CANCELLATIONS: AN UNAVOIDABLE AND COSTLY ISSUE

D. Nguyen, S. G. Gambrel, Z. Hassan, R. Lock, E. A. Bowe

Anesthesiology, University of Kentucky, Lexington, Kentucky

General Physical Posters

Perioperative Anesthesia 3
Abstracts in Poster Discussion Round: S-285, S-287 – S-292
1:00 pm - 2:30 pm

PR02-27

Poster Moderator: S. Pai, MD, Mayo Clinic Florida, Jacksonville, Florida

S-285 PATIENT FACTORS PROTECTIVE OF FAILURE TO RESCUE AFTER OPEN ABDOMINAL AORTIC SURGERY

E. B. Rosero¹, G. P. Joshi²

¹Anesthesiology and Pain Management, UT Southwestern Medical Center, Dallas, Texas, ²Anesthesiology and Pain Management, University of Texas Southwestern Medical Center, Dallas, Texas

S-287 THE REDUCTION OF PREOPERATIVE TESTING FOR PATIENTS UNDERGOING SURGERY WITH A BIER BLOCK ANESTHETIC

M. H. Tsai¹, A. C. Rubens², J. D. Michelson³, C. E. Birch³, J. A. McAvoy⁴, A. A. Jacobs⁵, J. P. Gilwee⁶

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S-288 PALONOSETRON-DEXAMETHASONE COMBINATION FOR PROPHYLAXIS OF POST-OPERATIVE NAUSEA AND VOMITING AFTER LAPAROSCOPIC CHOLECYSTECTOMY

S. Singh

Anesthesiology, Sanjay Gandhi Post Graduate Institute of Medical Science, Lucknow, India

S-289 FAILURE TO CHILL: AN EXPRESS TICKET TO WASTED BLOOD PRODUCTS!

A. L. Screws¹, J. R. Pelletier², J. D. White¹

¹Dept Of Anesthesiology, University of Florida, Gainesville, Florida, ²Pathology, Immunology and Laboratory Medicine, UF Health, Gainesville, Florida

S-290 COMPARISON OF VARIOUS PREOPERATIVE ECHOCARDIOGRAM MEASUREMENTS FOR PREDICTING 30 DAY MORTALITY AFTER NONCARDIAC SURGERY

K. T. Peretich¹, M. Engoren², E. S. Jewell³, M. D. Maile⁴

¹Anesthesiology Critical Care, University of Michigan Health System, Ann Arbor, Michigan, ²Anesthesiology, University of Michigan, Ann Arbor, Michigan, ³Department of Anesthesiology, University of Michigan Health System, Ann Arbor, Michigan, ⁴Anesthesiology Critical Care, University of Michigan, Ann Arbor, Michigan

S-291 ANESTHESIA MAINTENANCE WITH DESFLURANE AND TARGET-CONTROLLED REMIFENTANIL: COMPARISON OF BISPECTRAL INDEX-GUIDED AND FIXED-GAS CONCENTRATION TECHNIQUES

B. Kim, S. Park, Y. Jung, H. Lee, C. Jung

Department of Anesthesiology and Pain Medicine, Seoul National University Hospital, Seoul, Republic of Korea

S-292 ASA PHYSICAL STATUS ASSIGNMENT BY NON-ANESTHESIA PROVIDERS

C. Curatolo¹, A. Goldberg¹, D. Maerz¹, H. Shah², H. Lin³, M. Trinh¹

¹Anesthesiology, The Mount Sinai Hospital, New York, New York, ²Information Technology and Medicine, New York Methodist Hospital, Brooklyn, New York, ³Population Health Science and Policy, Icahn Medical Institute at Mount Sinai, New York, New York

Airway Management 3
Abstracts in Poster Discussion Round:
S-15 – S-16, S-18 – S-20, S-22
2:45 pm – 4:15 pm

PR02-28

Poster Moderator: R. Craft, MD, University of Tennessee, Knoxville, Tennessee

S-15 THE COMPARISON OF MCGRATH MAC, C-MAC, AND MACINTOSH LARYNGOSCOPE IN NOVICE USERS IN A MANIKIN

H. Kim, H. Kang, M. Lee, S. Park, J. Lee

Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea

General Physical Posters

PR02-28, continued

S-16 THE INFLUENCE OF HEAD AND NECK POSITION ON THE OROPHARYNGEAL LEAK PRESSURE USING AIR-Q® SP AIRWAY

H. Kim, H. Kang, M. Lee, S. PARK, J. Lee

Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea

S-18 DIGITAL IMAGING SOFTWARE TO ASSESS THE ANATOMIC STRUCTURES OF THE ORAL CAVITY IN PATIENTS WITH THYROID MASSES; PILOT STUDY EVALUATING INTUBATION AND OXYGENATION DIFFICULTIES WHEN USING VIDEOLARYNGOSCOPY

P. Leech, Z. D. Riley, K. N. Johnson, Y. F. Bryan

Anesthesiology, Wake Forest Baptist Health, Winston-Salem, North Carolina

S-19 BOUGIE ASSISTED ENDOTRACHEAL INTUBATION USING THE AIR-Q INTUBATING LARYNGEAL AIRWAY

R. S. Ebied, M. Z. Ali, H. F. Khafagy, Y. M. Samhan

Anesthesia and ICU, Theodor Bilharz Research Institute, Giza, Egypt

S-20 REDUCTION OF THE RESPIRATORY RATE BY HIGH-FLOW NASAL CANNULA OXYGEN THERAPY : A STUDY IN PATIENTS WITH ACUTE RESPIRATORY FAILURE IN THE INTENSIVE CARE UNIT

A. Motoyasu, K. Moriyama, T. Yamada, T. Yorozu

¹Anesthesiology, Kyorin University School of Medicine, Tokyo, Japan,

S-22 IS THE VIDEO LARYNGOSCOPE REALLY TAKING OVER? INTUBATION TRENDS IN BARIATRIC SURGERY

J. Markar¹, J. R. Heninger², H. Nishioka²

¹University of Illinois at Chicago College of Medicine, University of Illinois Hospital and Health Sciences, Chicago, Illinois, ²Anesthesiology, University of Illinois Hospital and Health Sciences, Chicago, Illinois

Critical Care 3

Abstracts in Poster Discussion Round:

S-99 – S-100, S-102 – S-105

2:45 pm - 4:15 pm

PR02-29

Poster Moderator: V. Singh, MD, FRCA, MRCP, University of Alabama at Birmingham Hospital, Birmingham, Alabama

S-99 DECOUPLING OF SODIUM AND POTASSIUM ION IS CORRELATED WITH POSTOPERATIVE RENAL FUNCTION AND RE-DIALYSIS RATE IN RENAL TRANSPLANTATION RECIPIENTS

J. Yang, G. Kim, S. Kang

Anesthesia and pain medicine, Samsung Medical Center, 81 Irwon-Ro Gangnam-gu. Seoul, Republic of Korea

S-100 INTRAVASCULAR VOLUME STATUS ASSESSMENT IN CONGESTIVE HEART FAILURE PATIENTS USING PERIPHERAL INTRAVENOUS WAVEFORM ANALYSIS

M. Miles¹, B. D. Alvis¹, S. Eagle², K. Hocking³

¹Anesthesia Critical Care, Vanderbilt Medical Center, Nashville, Tennessee, ²Anesthesia, Vanderbilt University, Nashville, Tennessee, ³Biomedical engineering, Vanderbilt University, Nashville, Tennessee

S-102 MITOCHONDRIAL DNA INDUCES STERILE TRACHEAL INJURY SECONDARY TO ENDOTRACHEAL INTUBATION: IMPACT ON NEUTROPHIL PHENOTYPES, ROS ACTIVITY AND TLR9 EXPRESSION

C. Puyo¹, D. Peruzzi², A. Earhart¹, M. Ibrahim³, A. Gelman³

¹Anesthesiology, Washington University St. Louis, St. Louis, Missouri, ²Anesthesiology, La Sapienza, Rome, Italy, ³Thoracic Transplantation Laboratory, Washington University St. Louis, St. Louis, Missouri

S-103 NEUTROPHIL ACTIVATION IS AMELIORATED AFTER EXPOSURE TO DNASE I AND CHLOROQUINE IN A MODEL OF TRACHEAL INFLAMMATION<!--ENDFRAGMENT-->

C. Puyo¹, D. Peruzzi², A. Earhart¹, I. Mohsen³, A. Gelman³

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General Physical Posters

PR02-29, continued

S-104 INTRACRANIAL HEMORRHAGE OCCURRING DURING ECMO SUPPORT

E. M. Camporesi, H. Omar, C. Sprenker, P. H. Dalvi, D. Mangar
TeamHealth Anesthesia, TeamHealth Anesthesia, Tampa, Florida

S-105 THE IMPACT OF DEEP SEDATION ON THE INCIDENCE OF DELIRIUM IN MECHANICALLY VENTILATED, CRITICALLY ILL PATIENTS

B. Weiss, F. Balzer, M. Griesshaber, M. Kastrup, C. D. Spies
Department of Anesthesiology and Intensive Care Medicine, Charite -
Universitätsmedizin Berlin, Berlin, Germany

Economics, Education and Policy 3
Abstracts in Poster Discussion Round: S-130, S-132 – S-137
2:45 pm - 4:15 pm

PR02-30

Poster Moderator: T. Krejcie, MD, Northwestern University, Chicago, Illinois

S-130 ANESTHESIOLOGISTS AND DISASTER MEDICINE: A NEEDS ASSESSMENT FOR EDUCATION AND TRAINING AND REPORTED WILLINGNESS TO RESPOND

H. K. Hayanga¹, N. R. Shallow², M. Roberts³, I. Bentov², G. Demiralp³,
B. D. Winters⁴, D. A. Schwengel⁴

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S-132 INCIDENCES AND CAUSES OF CANCELLATION OF ELECTIVE SURGERY AT HRH PRINCESS MAHA CHAKRI SIRINDHON MEDICAL CENTER

V. Pattaratuma, J. Limim
Anesthesiology, Srinakharinwirot University, Nakhornnayok, Thailand

S-133 IMPROVED METHODS FOR DESIGN AND ANALYSIS OF COMPOSITE ENDPOINTS

E. J. Mascha
Quantitative Health Sciences, Cleveland Clinic, Cleveland, Ohio

S-134 PREJUDICE OR PERSPECTIVE? SUBJECTIVE VALUATION OF SIMULATION CORRELATES WITH OBJECTIVE PERFORMANCE

S. T. Samuelson¹, S. DeMaria², A. Goldberg¹
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S-135 CALM WITHIN THE STORM: EMOTIONAL SELF-REGULATION AFFECTS GRADED PERFORMANCE IN HIGH-STAKES SIMULATION

S. T. Samuelson¹, A. Goldberg², S. DeMaria³
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S-136 NORA FIRST CASE START DELAYS: A TALE OF TWO CITIES

S. E. O'Donnell¹, J. A. Sanford², E. M. Maddy¹, Y. F. Roumani³, M. H. Tsai⁴

¹Anesthesiology, University of Vermont College of Medicine, Burlington, Vermont, ²Anesthesiology, University of Arkansas for Medical Sciences, Little Rock, Arkansas, ³School of Business Administration, Oakland University, Rochester, Michigan, ⁴Anesthesiology; Orthopedics and Rehabilitation (by courtesy), University of Vermont College of Medicine, Burlington, Vermont

S-137 NON-OPERATING ROOM ANESTHESIA CANCELLATION RATES

J. Sanford¹, D. A. Andritsos², M. H. Tsai³, R. D. Urman⁴, S. E. O'Donnell⁵
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General Physical Posters

Regional Anesthesia 1

Abstracts in Poster Discussion Round: S-314 – S-321

2:45 pm - 4:15 pm

PRO2-31

Poster Moderator: **M. Yokoyama, MD**, Kochi University, Nankoku, Japan

S-314 EFFECT OF LOCAL ANESTHETIC VOLUME WITHIN THE ADDUCTOR CANAL ON QUADRICEPS FEMORIS FUNCTION EVALUATED BY ELECTROMYOGRAPHY: A RANDOMIZED, OBSERVER- AND SUBJECT-BLINDED, PLACEBO-CONTROLLED STUDY IN VOLUNTEERS

U. Grevstad¹, P. Jaeger¹, J. Sorensen¹, B. Gottschau¹, B. M. Ilfeld², M. Ballegaard³, J. B. Dahl¹

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²Anesthesiology, University California San Diego, San Diego, California,

³Clinical Neurophysiology, Rigshospitalet, Copenhagen, Denmark

S-315 NEUROSTIMULATION FOR POST-SURGICAL ANALGESIA: A NOVEL ELECTRICAL LEAD ENABLING ULTRASOUND-GUIDED PERCUTANEOUS PERIPHERAL NERVE STIMULATION

B. M. Ilfeld¹, S. Grant², C. Gilmore³, J. Chae⁴, R. Wilson⁵, A. Wongsampigoon⁶, J. Boggs⁶

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Carolina, ⁴Physical Medicine and Rehabilitation, Case Western Reserve

University, Cleveland, Ohio, ⁵Physical Medicine and Rehabilitation,

MetroHealth Rehabilitation Institute, Cleveland, Ohio, ⁶Research and

Development, SPR Therapeutics, Research Triangle Park, North Carolina

S-316 COMPARISON OF TWO TECHNIQUES FOR THORACIC PARAVERTEBRAL BLOCKADE: A RETROSPECTIVE ANALYSIS AT A SINGLE TERTIARY CARE TEACHING INSTITUTION

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and Computational Biology, University of Rochester School of Medicine,

Rochester, New York

S-317 INHIBITION OF BREAST CANCER CELLS BY LOCAL ANESTHETICS

C. Xiao

Anesthesiology, Stony Brook University, Stony Brook, New York

S-318 TO COMPARE THE EFFICACY OF INTERCOSTAL NERVE BLOCK AND PERITUBAL INFILTRATION OF ROPIVACAINE FOR POSTOPERATIVE ANALGESIA FOLLOWING PERCUTANEOUS NEPHROLITHOTOMY- A PROSPECTIVE RANDOMIZED DOUBLE BLIND STUDY

N. Jonnavithula¹, R. Chirra², S. Pasupuleti¹, V. Pisapati²

¹Department of Anesthesiology and Intensive care, Nizam's Institute of Medical Sciences, Hyderabad, India, ²Department of Urology and Renal Transplantation, Nizam's Institute of Medical Sciences, Hyderabad, India

S-319 EFFECT OF NERVE STIMULATION USE ON THE SUCCESS RATE OF ULTRASOUND-GUIDED SUBSARTORIAL SAPHENOUS NERVE BLOCKADE

S. H. Montgomery, C. M. Shamji, G. S. Yi, C. H. Yarnold, S. J. Head, S. C. Bell, S. K. Schwarz

Department of Anesthesiology, Pharmacology & Therapeutics, The University of British Columbia, Vancouver, British Columbia, Canada

S-320 UNI-PORT AND MULTI-PORT EPIDURAL CATHETERS IN POST-SURGICAL PATIENTS

M. R. Foley¹, M. Connolly², B. VanderWielen², M. Shnyder², P. Hess²

¹Anesthesiology, Northwestern University, Chicago, Illinois, ²Anesthesiology, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-321 ACCURATE NEEDLE ENTRY POINT AND ANGULATION IS CRUCIAL IN USING PREDETERMINED DEPTH TO LOCATE THE THORACIC PARAVERTEBRAL SPACE (TPVS)

B. Ihnatsenka, R. Agarwal, L. Le-Wendling

Anesthesiology, University of Florida, Gainesville, Florida

Neuroscience in Anesthesiology & Perioperative Medicine 4

Abstracts in Poster Discussion Round: S-168 – S-174

4:30 pm - 6:00 pm

PRO2-32

Poster Moderator: **R. Whittington, MD**, Columbia University, New York, New York

S-168 CHAOS ANALYSIS PROVIDES A MORE SENSITIVE AND ACCURATE MEASURE FOR LOSS OF CONSCIOUSNESS COMPARED TO FREQUENCY DOMAIN MEASURES OF EEG SIGNALS

B. Maciver, D. Chander

Anesthesia, Stanford University, Stanford, California

General Physical Posters

PR02-32, continued

S-169 THE CORRELATION BETWEEN REGIONAL CEREBRAL OXIMETRY AND MEAN ARTERIAL BLOOD PRESSURE IN THE BEACH CHAIR POSITION: A SECONDARY ANALYSIS OF A PROSPECTIVE INTERVENTIONAL STUDY

P. Picton¹, M. Housey¹, A. Dering¹, M. Neff¹, B. Miller², A. Shanks¹, G. Mashour¹

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S-170 CLOSED LOOP CONTROL OF TOTAL INTRAVENOUS ANESTHESIA DURING SIGNIFICANT INTRAOPERATIVE BLOOD LOSS

S. M. Brodie¹, N. C. West¹, M. Görges², J. Ansemino¹, K. van Heusden³, G. Dumont³, R. N. Merchant¹

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S-171 CLOSED-LOOP CONTROL OF REMIFENTANIL AND PROPOFOL ANESTHESIA: EFFECTS ON PERFORMANCE AND BURST SUPPRESSION

S. M. Brodie¹, K. van Heusden², N. C. West¹, M. Görges³, G. Dumont², J. Ansemino¹, R. N. Merchant¹

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S-172 POSTOPERATIVE COGNITIVE DYSFUNCTION: THE IMPACT OF STROKE AND SILENT ISCHEMIC LESIONS FOLLOWING AORTIC VALVE REPLACEMENT FOR AORTIC STENOSIS

T. Giovannetti¹, C. C. Price², M. Fanning³, S. Messe⁴, S. J. Ratcliffe⁵, M. A. Acker³, T. F. Floyd⁶

¹Psychology, Temple University, Philadelphia, PA, ²Clinical and Health Psychology, University of Florida, Gainesville, FL, ³Surgery, University of Pennsylvania, Philadelphia, Pennsylvania, ⁴Stroke and Neurocritical Care, University of Pennsylvania, Philadelphia, Pennsylvania, ⁵Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, Pennsylvania, ⁶Anesthesiology, Stony Brook University, Stony Brook, New York

S-173 ELECTROENCEPHALOGRAPHIC CORRELATES OF HYPNOSIS INDEPENDENT OF DRUG EFFECT IN MICE

A. Wasilczuk, M. Kelz, A. McKinstry-Wu

Anesthesiology & Critical Care, University of Pennsylvania, Philadelphia, Pennsylvania

S-174 INTRAVENOUS ACETAMINOPHEN SIGNIFICANTLY REDUCES PAIN AFTER CRANIOTOMY: A RANDOMIZED CONTROL TRIAL

M. A. Burbridge, R. Jaffe

Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University, Stanford, California

Pain Medicine 1
Abstracts in Poster Discussion Round: S-192 – S-198, S-203
4:30 pm - 6:00 pm

PR02-33

Poster Moderator: R. Ganta MD, FRCA, University of Oklahoma, Oklahoma City, Oklahoma

S-192 THE EFFECT OF CURRENT LOW BACK PAIN ON VOLITIONAL PREEMPTIVE ABDOMINAL ACTIVATION DURING A LOADED FUNCTIONAL REACH ACTIVITY

V. Nagar¹, T. Hooper², G. Dedrick³, J. Brismée², M. McGalliard⁴, P. Sizer²

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S-193 REMIFENTANIL INDUCED HYPERALGESIA ON POSTOPERATIVE DAY ONE - A PROPENSITY SCORE MATCHED ANALYSIS FROM THE PAIN OUT REGISTRY

A. Wolf, L. Richter, K. Donauer, M. M. Roeb, T. Volk

Department of Anesthesiology, Intensive Care and Pain Therapy, Saarland University Medical Center, Homburg, Germany

S-194 SYSTEMATIC REVIEW OF YOGA FOR LOW BACK PAIN

F. Khan¹, S. Kim², R. P. Kline³, G. Cuff⁴

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General Physical Posters

PR02-33, continued

S-195 COMPARISON OF MINUTE VENTILATION TO RESPIRATORY RATE MEASUREMENTS IN THE POST-OPERATIVE PERIOD

W. Saasouh¹, B. C. Harvey², A. Turan¹

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S-196 EFFECT OF CHRONIC PAIN AND NSAIDS ON COGNITIVE PERFORMANCE IN THE ALZHEIMER'S DISEASE NEUROIMAGING INITIATIVE DATABASE

R. P. Kline¹, D. Choi¹, L. Doan²

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S-197 EFFECTS OF A LIDOCAINE-LOADED POLOXAMER/ALGINATE/CACL2 MIXTURE ON POSTOPERATIVE PAIN AND ADHESION IN A RAT MODEL OF INCISIONAL PAIN

G. Choi, H. Kang, C. Baek, Y. Jung, Y. Woo

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S-198 EFFECT OF PERIOPERATIVE PREGABALIN ON ACUTE AND CHRONIC POSTOPERATIVE PAIN IN PATIENTS UNDERGOING BREAST SURGERY

K. C. Pant¹, S. Singh²

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S-203 PREVALENCE AND CHARACTERISTIC OF OPIOID USE PRIOR TO ADMISSION BASED ON GENDER, AGE, AND ETHNICITY

J. Dang, V. Desai, D. Nguyen, E. Banh, P. Gulur

Anesthesiology, University of California, Irvine, Orange, California

Pediatric Anesthesiology 2

Abstracts in Poster Discussion Round: S-248 – S-255

4:30 pm - 6:00 pm

PR02-34

Poster Moderator: R. Hannallah, MD, Children's National Medical Center, Washington, DC

S-248 FIBRINOLYSIS IN CHILDREN UNDERGOING MAJOR CRANIAL VAULT SURGERY

T. Nguyen¹, H. Lam², T. M. Austin³, J. Schoenecker⁴

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S-249 PERIOPERATIVE OPTIMIZATION IS ASSOCIATED WITH DECREASED POSTOPERATIVE PRBC TRANSFUSION IN THE POSTOPERATIVE PERIOD

T. Nguyen¹, H. Lam², T. M. Austin³

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Anesthesiology, Emory University, Atlanta, Georgia, ³Anesthesiology, Emory Hospital, Atlanta, Georgia

S-250 NEONATAL INTENSIVE CARE UNIT TO OPERATING ROOM HANDOVERS: WHAT WE HAVE LEARNED FROM OBSERVATION

A. Lorinc¹, D. A. Roberts¹, J. M. Slagle¹, J. M. Sullivan², D. J. France¹, M. B. Weinger¹

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S-251 ANESTHETIC DILEMMA: CHILDHOOD OBSTRUCTIVE SLEEP APNEA IS A RISK FACTOR FOR EARLY POSTOPERATIVE PAIN FOLLOWING AMBULATORY SURGERY

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S-252 EFFECTS OF CAUDAL BLOCK ON NEPHRO-URETERIC RECOVERY IN INFANTS AFTER URETERONEOCYSTOSTOMY

M. Lee, H. Kim, H. Lee, J. Lee

Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea

General Physical Posters

PR02-34, continued

S-253 DEXMEDETOMIDINE AND REMIFENTANIL AS TOTAL INTRAVENOUS ANESTHESIA IN INFANTS: A CASE SERIES

R. Saynhalath¹, W. Boone², P. Szmuk¹

¹Department of Anesthesiology, UT Southwestern and Children's Medical Center, Dallas, Texas, ²Department of Anesthesiology, Anesthesia for Children, Dallas, Texas

S-254 LOW VS MODERATE DOSE NALOXONE INFUSION COMBINED WITH PATIENT CONTROLLED ANALGESIA FOR PEDIATRIC PATIENTS AFTER POSTERIOR SPINE FUSION: A RANDOMIZED CLINICAL TRIAL

B. J. Pieters¹, J. T. Anderson², N. Price², R. M. Schwend²

¹Anesthesiology, Children's Mercy Hospital and Clinics, Kansas City, Missouri, ²Orthopedic Surgery, Children's Mercy Hospital and Clinics, Kansas City, Missouri

S-255 ISOFLURANE EXPOSURE IN NEONATAL C57BL/6 MICE CREATES A CONCENTRATION DEPENDENT DEFICIT IN CONTEXT PRE-EXPOSURE FACILITATION EFFECT AS JUVENILES BUT NOT ADULTS

C. G. Ward¹, T. De Young¹, G. A. Barr¹, M. F. Eckenhoff², R. G. Eckenhoff²

¹Anesthesiology and Critical Care Medicine, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, ²Anesthesiology and Critical Care Medicine, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania

Perioperative Anesthesia 4

Abstracts in Poster Discussion Round:

S-272 – S-273, S-293 – S-295, S-298 – S-299

4:30 pm - 6:00 pm

PR02-35

Poster Moderator: A. Edwards, MD, Wake Forest University School of Medicine, Winston-Salem, North Carolina

S-272 DIFFERENT METHODS OF MODELING HYPOTENSION AND THEIR ASSOCIATION WITH POSTOPERATIVE TROPONIN ELEVATION IN PATIENTS UNDERGOING NONCARDIAC SURGERY

L. M. Vermooij¹, W. A. van Klei², M. Machina³, W. Pasma⁴, L. M. Peelen¹

¹Epidemiology, Julius Center for Health Sciences and Primary Care & Department of Anesthesiology, University Medical Center Utrecht, Utrecht, Netherlands, ²Department of Anesthesiology, University Medical Center Utrecht, Utrecht, Netherlands, ³Department of Anesthesia, Toronto General Hospital, Toronto, Ontario, Canada, ⁴Department of Intensive Care Medicine, University Medical Center Utrecht, Utrecht, Netherlands

S-273 METHODS TO EXPRESS THE AMOUNT OF INTRAOPERATIVE HYPOTENSION IN CLINICAL STUDIES: A SYSTEMATIC REVIEW

L. M. Vermooij¹, W. A. van Klei², L. M. Peelen¹

¹Epidemiology, Julius Center for Health Sciences and Primary Care & Department of Anesthesiology, University Medical Center Utrecht, Utrecht, Netherlands, ²Department of Anesthesiology, University Medical Center Utrecht, Utrecht, Netherlands

S-293 IN PRIMARY TOTAL HIP ARTHROPLASTY, DOES THE USE OF A STANDARDISED, SPINAL-BASED ANAESTHETIC TECHNIQUE AND STANDARD SURGICAL LOCAL ANAESTHETIC INFILTRATION AFFECT POSTOPERATIVE OXYCODONE CONSUMPTION

N. Campbell¹, J. J. Dickens², B. Ayres¹, M. P. Margaron³, M. J. Husband⁴, C. M. Eitel⁵

¹Anaesthesia, St Richards Hospital, Chichester, United Kingdom, ²Anaesthesia, Western Sussex Hospitals NHS Trust, Chichester, United Kingdom, ³Anaesthesia, St Richard's Hospital, Chichester, United Kingdom, ⁴Anaesthesia, St Richard's Hospital, Chichester, United Kingdom, ⁵Anaesthesia, Western Sussex NHS Foundation Trust, Chichester, United Kingdom

S-294 IN PRIMARY TOTAL KNEE ARTHROPLASTY, DOES THE USE OF A STANDARDISED SPINAL BASED ANAESTHETIC TECHNIQUE, TOGETHER WITH POSTOPERATIVE LOCAL ANAESTHETIC INFILTRATION, AFFECT POSTOPERATIVE OXYCODONE CONSUMPTION

N. Campbell, J. Dickens, B. Ayres, M. Margaron, M. Husband, C. M. Eitel

Anaesthesia, St Richards Hospital, Chichester, United Kingdom

S-295 STOPBANG CRITERIA ADJUSTED TO ACCOMMODATE GENDER DIFFERENCES MAY CREATE A MORE INCLUSIVE OSA SCREENING TOOL

L. C. Jameson¹, A. F. Moss², K. J. Bullard³, K. Bartels¹, A. Fernandez-Bustamante⁴

¹Anesthesiology, University of Colorado, Aurora, Colorado, ²ACCORDS, University of Colorado, Aurora, Colorado, ³Anesthesiology, University of Colorado Denver, Aurora, Colorado, ⁴Anesthesiology, University of Colorado SOM, Aurora, Colorado

S-298 USE OF PROPOFOL VS MIDAZOLAM FOR PREMEDICATION A PLACEBO CONTROLLED, RANDOMIZED, DOUBLE BLINDED STUDY

O. L. Elvir Lazo, P. F. White, J. Tang, X. Cao, F. Yumul, R. Yumul, R. H. Wender

Anesthesiology, Cedars Sinai Medical Center, Los Angeles, California

General Physical Posters

S-299 EFFECTS OF AN ENHANCED RECOVERY AFTER SURGERY
PROTOCOL IN PEDIATRIC PATIENTS UNDERGOING MAJOR
HIP SURGERY

J. M. Sobey¹, *A. Franklin*¹, *J. P. Wanderer*²

¹Pediatric Anesthesiology, Vanderbilt University Hospital, Nashville,
Tennessee, ²Department of Anesthesiology, Vanderbilt University, Nashville,
Tennessee

Medically Challenging Cases ePosters

Medically Challenging Cases 9
Abstracts in Poster Discussion Rounds:
MC-51 – MC-53,
8:00 am - 9:30 am Monitor 1

MCC02-09

Poster Moderator: **Q. C. Ott, MD**, Beth Israel Deaconess Medical Center, Boston, Massachusetts

MC-51 3D TRANSESOPHAGEAL ECHOCARDIOGRAPHY EVALUATION OF AN IMPROPERLY POSITIONED IMPELLA DEVICE

C. Courtney, *S. Armour, E. D. Wittwer*

Cardiothoracic Anesthesiology, Mayo Clinic, Rochester, Minnesota

MC-52 ANAPHYLAXIS CAUSING PRIMARY FIBRINOLYSIS IN A PATIENT UNDERGOING TRICUSPID VALVE REPAIR

C. Courtney, *E. Ashikhmina*

Cardiothoracic Anesthesiology, Mayo Clinic, Rochester, Minnesota

MC-53 CASE REPORT: RVOT OBSTRUCTION CAUSED BY RIGHT VENTRICULAR MYXOMA

J. Lee, K. Lee, K. Shaw

Anesthesiology, University of Connecticut, Farmington, Connecticut

Medically Challenging Cases 10

Abstracts in Poster Discussion Rounds: MC-56 – MC-61
8:00 am - 9:30 am Monitor 2

MCC02-10

Poster Moderator: **J. Charchafieh, MD**, Yale University, New Haven, Connecticut

MC-56 LIVER TRANSPLANTATION FOR ABERNETHY MALFORMATION WITH POSTOPERATIVE VENO-VENOUS ECMO THERAPY

F. Herbstreit¹, *P. Fassbender*¹, *M. Freitag*², *A. Paul*³, *J. Peters*¹

¹Anesthesiology and Intensive Care Medicine, Universitaetsklinikum Essen, Essen, Germany, ²Anesthesiology and Intensive Care Medicine, Marien-Hospital Wesel, Wesel, Germany, ³General and Transplant Surgery, Universitaetsklinikum Essen, Essen, Germany.

MC-57 CLASSIC TRIAD: PHEOCHROMOCYTOMA, BETA-BLOCKER, HEMODYNAMIC COLLAPSE

S. Hynes¹, *A. Young*², *J. M. Gelow*³, *D. Sedehi*³

¹Anesthesiology and Perioperative Medicine, Oregon Health and Science University, Portland, Oregon, ²Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon, ³Knight Cardiovascular Institute, Oregon Health and Science University, Portland, Oregon

MC-58 A NOVEL NASAL PAP MASK ASSEMBLY PROVIDED CPAP PRE-OXYGENATION AND APNEIC OXYGENATION IN A SEPTIC PATIENT WITH RESPIRATORY FAILURE DURING RSI OF GENERAL ANESTHESIA FOR EMERGENCY ERCP

A. Rianto, *A. M. Doucette, T. Ajibade, S. Mellender, J. T. Denny, J. Tse*

Anesthesiology, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MC-59 ALEMTUZUMAB ASSOCIATED HYPOXEMIA AND VASODILATORY SHOCK

G. T. Le¹, *C. Russell*²

¹Anesthesiology, Columbia University Medical Center, New York, New York, ²Anesthesiology and Critical Care, Columbia University College of Physicians and Surgery, New York, New York

MC-60 THE USE OF METHYLENE BLUE INFUSION FOR A PATIENT WITH POST-CARDIAC SURGERY VASOPLEGIA AND HEART FAILURE SUPPORTED BY AN IMPELLA 5.0 VENTRICULAR ASSIST DEVICE

M. S. Murrell¹, *B. Hesel*², *M. Eppinger*³, *D. B. Langdon*¹, *N. Mahnke*¹, *S. Venticinque*¹

¹Anesthesiology, University of Texas Health Science Center, San Antonio, Texas, ²Cardiothoracic Surgery, San Antonio Military Medical Center, San Antonio, Texas, ³Cardiothoracic Surgery, Audie L. Murphy Memorial Veterans Hospital, San Antonio, Texas

MC-61 MILK OF MAGNESIA: THE OVER-USED KILLER

O. Turkot¹, *M. R. Ahmed*¹, *C. R. Hansebout*¹, *M. Doroshenko*², *S. Worah*¹

¹Anesthesiology, SUNY Downstate Medical Center, Brooklyn, New York, ²Neurobiology and Behavior, SUNY Stony Brook, Stony Brook, New York

Medically Challenging Cases ePosters

Medically Challenging Cases 11
Abstracts in Poster Discussion Rounds: MC-62 – MC-68
8:00 am - 9:30 am Monitor 3

MCC02-11

Poster Moderator: J. Berman, MD, University of North Carolina, Chapel Hill, North Carolina

MC-62 USE OF INTRAVENOUS CAFFEINE RESCUE FOR POSTOPERATIVE APNEA IN A CHILD WITH TRISOMY 10

M. A. Evans¹, *T. M. Austin²*, *H. V. Lam²*

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MC-63 PERI-OPERATIVE CONSIDERATIONS IN A PATIENT WITH WALKER-WARBURG SYNDROME

D. B. Gruner, *E. T. Stickle*

Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

MC-64 CHALLENGING INTUBATION SECONDARY TO SUBGLOTTIC STENOSIS IN A CHILD WITH HEMOPHILIA A

M. Amin, *S. Pandya Shah*

Department of Anesthesiology, Rutgers - NJMS, Newark, New Jersey

MC-65 MANAGEMENT OF SURGICALLY INDUCED BRONCHIAL TEAR DURING THORACOSCOPIC TRACHEOESOPHAGEAL FISTULA REPAIR IN NEONATE

S. A. Crandall, *A. N. Farag*

Anesthesiology, Texas Tech University, Lubbock, Texas

MC-66 HYPERCARBIA IN A BABY WITH TREACHER COLLINS SYNDROME: THE COMPLEXITY OF DEFINITIVE MALIGNANT HYPERTHERMIA DIAGNOSIS IN PEDIATRIC PATIENTS

G. A. Pollock, *I. Latin*, *H. H. Lee*, *L. Rothschild*

Anesthesiology, University of Illinois at Chicago, Chicago, Illinois

MC-67 ANESTHETIC MANAGEMENT OF A PATIENT WITH CANTRELL'S PENTALOGY ASSOCIATED WITH ECTOPIA CORDIS

S. Thomas, **J. Wells**, *K. Chaudhuri*

Anesthesia, Texas Tech University Health Science Center, Lubbock, Texas

MC-68 TRANSITORY INTRAOPERATIVE HYPERCAPNIA AND TACHYCARDIA: SHOULD WE BE CONCERNED ABOUT MALIGNANT HYPERTHERMIA?

K. Kamra

Anesthesia, Stanford, Stanford, California

Medically Challenging Cases 12
Abstracts in Poster Discussion Rounds: MC-69 – MC-74
10:30 am - 12:00 pm Monitor 1

MCC02-12

Poster Moderator: M. Rosenblatt, MD, Mt. Sinai Medical Center, New York, New York

MC-69 DEXMEDETOMIDINE TREATMENT FOR POSTICTAL DELIRIUM AFTER ELECTROCONVULSIVE THERAPY

R. Brewer¹, *K. A. Candiotti¹*, *M. Strassnig²*

¹Anesthesiology, Jackson Memorial Hospital, Miami, Florida, ²Psychiatry, University of Miami, Miami, Florida

MC-70 A BALANCED ANESTHETIC APPROACH FOR WILLIAMS SYNDROME

T. Mell, *S. Wong*, *A. Apostol*

Anesthesiology, SUNY Downstate, Brooklyn, New York

MC-71 SEEING THE BIG PICTURE IN A SMALL SETTING A COMPLEX AND NONCOMPLIANT PATIENT MANAGED AT AN AMBULATORY CENTER

W. P. Murphy, *O. Suarez-Winowiski*

Anesthesiology, Virginia Commonwealth University, Richmond, Virginia

MC-72 MASSETER SPASM AFTER PROPOFOL INDUCTION WITH SUBSEQUENT SUCCESSFUL INHALATIONAL INDUCTION

C. Maffeo, *J. Schindler*

Department of Anesthesiology, Emory University at Grady Hospital, Atlanta, Georgia

MC-73 INTRAOPERATIVE REFRACTORY HYPOTENSION IN A PATIENT ALLERGIC TO ANGIOTENSIN CONVERTING ENZYME INHIBITORS, TAKING AN ANGIOTENSIN II RECEPTOR BLOCKER

W. Chee, *A. Nam*

Department of Anesthesiology, Montefiore Medical Center & Albert Einstein College of Medicine, Bronx, New York

Medically Challenging Cases ePosters

MCC02-12, continued

MC-74 UNEXPLAINED PERSISTENT HYPOXEMIA DIAGNOSING AND TREATING METHEMOGLOBINEMIA

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Medically Challenging Cases 13
Abstracts in Poster Discussion Rounds:
MC-54, MC-75 – MC-81
10:30 am - 12:00 pm Monitor 2

MCC02-13

Poster Moderator: J. Huffmyer, MD, University of Virginia Health System, Charlottesville, Virginia

MC-54 PERIOPERATIVE MANAGEMENT OF A RARE CYSTIC TUMOR OF THE ATRIOVENTRICULAR NODE CAUSING COMPLETE HEART BLOCK

C. Tan¹, T. Shen², J. Lee², R. Siddiqui², K. Shelton²

¹Department of Anesthesia, Critical Care, and Pain, Massachusetts General Hospital, Boston, Massachusetts, ²Massachusetts General Hospital, Boston, Massachusetts

MC-75 ACQUIRED FACTOR VIII DEFICIENCY IN MAJOR VASCULAR SURGERY: INTRA-OPERATIVE CHALLENGES

L. Moore

Anesthesiology, University of Florida Health, Gainesville, Florida

MC-76 SUSPECTED CORONARY ARTERY EMBOLISM AFTER AORTIC VALVE SPARING SURGERY

J. Mukherji, C. Talarek, N. Ural

Anesthesiology, Loyola University Medical Center, Maywood, Illinois

MC-77 COMBINED HEART-LIVER TRANSPLANTATION

G. Gilkey, D. W. Barbara

Anesthesiology, Mayo Clinic Rochester, Rochester, Minnesota

MC-78 LEFT VENTRICULAR ASSIST DEVICE OCCLUSION AT IMPLANTATION DUE TO FIBRIN DEBRIS FROM SHORT TERM VENTRICULAR ASSIST DEVICE

O. D. Aljure¹, R. Martinez-Ruiz¹, B. Webber²

Cardiothoracic Anesthesiology, Jackson Memorial Hospital - University of Miami, Miami, Florida, ²Anesthesiology, University of Miami/Jackson Memorial Hospital, Miami, Florida

MC-79 IATROGENIC RIGHT CORONARY ARTERY OCCLUSION FOLLOWING TRICUSPID VALVE REPAIR

B. B. Smith, M. M. Smith, K. H. Rehfeldt

Department of Anesthesiology, Mayo Clinic, Rochester, Minnesota

MC-80 ANESTHETIC CONSIDERATIONS IN CHILDREN UNDERGOING PULMONARY VEIN INTERVENTIONS: A CASE EXAMPLE

T. Baker, W. Miller-Hance

Cardiovascular Anesthesiology, Texas Children's Hospital, Houston, Texas

MC-81 TOTAL PERICARDIECTOMY FOR CALCIFIC CONSTRICTIVE PERICARDITIS IN THE SETTING OF SYSTEMIC LUPUS ERYTHEMATOSUS (SLE) AND SCLERODERMA

M. A. Davis, B. Makkad

Anesthesiology, University of Cincinnati Medical Center, Cincinnati, Ohio

Medically Challenging Cases 14
Abstracts in Poster Discussion Rounds: MC-82 – MC-89
10:30 am - 12:00 pm Monitor 3

MCC02-14

Poster Moderator: S. Worah, MD, SUNY Downstate Medical Center, New York, New York

MC-82 OPEN ABDOMINAL AORTIC ANEURYSM REPAIR COMPLICATED BY INTERNAL ILIAC ARTERY OCCLUSION: A CASE STUDY OF EXTENSIVE GLUTEAL NECROSIS

V. Srivastava, H. Nishioka

Anesthesiology, University of Illinois Hospital, Chicago, Illinois

Medically Challenging Cases ePosters

MCC02-14, continued

MC-83 CRITICAL CARE CHALLENGES IN THE MANAGEMENT OF ACUTE LIFE-THREATENING REFRACTORY HYPOXEMIA FOLLOWING BILATERAL LUNG TRANSPLANTATION

J. Mukherji, *T. Sheikh, E. S. Schmidt*

Anesthesiology, Loyola University Medical Center, Maywood, Illinois

MC-84 FUSOBACTERIUM NECROPHORUM: A RARE CAUSE OF SEPTIC SHOCK IN HEALTHY YOUNG ADULTS

J. Hafer, J. Brainard

Anesthesiology, University of Colorado School of Medicine, Aurora, Colorado

MC-85 VENO-ARTERIAL VENOUS ECMO FOR POSTOPERATIVE CARDIOGENIC SHOCK AND ARDS AFTER LIVER TRANSPLANTATION

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MC-86 CLOSTRIDIUM SORDELLII ANOTHER KILLER THAT GOES UNPUNISHED

A. Gorgy¹, *J. Aronsohn*²

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MC-87 TREATMENT OF ACUTE PULMONARY EMBOLISM USING THE INARI FLOWTRIEVER DEVICE

J. D. Bacon, *J. S. Dority*

Anesthesiology, University of Kentucky, Lexington, Kentucky

MC-88 CORRECTION OF PROFOUND COAGULOPATHY AND HYPERFIBINOLYSIS BY TRANEXAMIC ACID AND RECOMBINANT FACTOR VII IN CIRRHOTIC PATIENT FOLLOWING TRAUMA

K. A. Andersen¹, *R. Dudaryk*²

¹Anesthesiology, Jackson Memorial Hospital, Miami, Florida, ²Anesthesiology, University of Miami, Miami, Florida

MC-89 PULMONARY CONTUSION COMPLICATING PERIOPERATIVE OXYGENATION

J. Nguyen¹, *D. R. Solanki*²

¹Anesthesiology, University of Texas Medical Branch, Galveston, Texas,

²Anesthesiology, University of Texas Medical Branch, League City, Texas

Medically Challenging Cases 15
Abstracts in Poster Discussion Rounds:
MC-90 – MC-91, MC-94 – MC-96
1:00 pm - 2:30 pm Monitor 1

MCC02-15

Poster Moderator: D. Chatterjee, MD, Children's Hospital Colorado, University of Colorado School of Medicine, Aurora, Colorado

MC-90 A NOVEL NASAL PAP MASK ASSEMBLY MAINTAINED SPONTANEOUS VENTILATION AND OXYGENATION IN A PEDIATRIC PATIENT WITH A LARGE RETROPHARYNGEAL ABSCESS DURING INHALATION INDUCTION OF GA

J. Tse, B. R. Landgraf, M. A. Woo, J. Perez

Anesthesiology, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MC-91 TWO STAGE TEF REPAIR COMPLICATED BY FAILED FISTULA CLIP

G. Huang¹, *A. Lin*², *N. Davis*³

¹Pediatric Anesthesiology, New York Presbyterian/Columbia, New York, New York, ²Anesthesiology, Morgan Stanley Children's Hospital, New York, New York, ³Pediatric Anesthesiology, Morgan Stanley Children's Hospital, New York, New York

MC-94 ANESTHETIC CHALLENGES IN A CASE OF NEONATAL CONGENITAL LOBAR EMPHYSEMA

J. J. Woo¹, *F. Afroze*¹, *P. Mishra*²

¹Anesthesiology, Albany Medical Center, Albany, New York, ²Anesthesiology, Albany Medical College, Albany, New York

MC-95 ANESTHETIC MANAGEMENT OF A PATIENT WITH VACTERL AND LISSENCEPHALY

K. M. von Kriegenbergh, *K. Chaudhuri*

Anesthesiology, Texas Tech University Health Sciences Center, Lubbock, Texas

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MCC02-15, continued

MC-96 GOING WITH THE FLOW: ANESTHETIZING A CHILD FOR A NOVEL PROCEDURE

L. Weaver¹, Z. A. Quinonez²

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Medically Challenging Cases 16
Abstracts in Poster Discussion Rounds:
MC-97 – MC-99, MC-101 – MC-104
1:00 pm - 2:30 pm Monitor 2

MCC02-16

Poster Moderator: P. Picton, MD, MRCP, FRCA, University of Michigan, Ann Arbor, Michigan

MC-97 SPONTANEOUS BILATERAL OTORRHAGIA DURING LAPAROSCOPIC ABDOMINAL SURGERY IN STEEP TRENDELENBURG POSITION

G. Rangrass, M. Karanikolas

Department of Anesthesiology, Washington University-St. Louis School of Medicine, St. Louis, Missouri

MC-98 RIGHT BRACHIOCEPHALIC VEIN PERFORATION CAUSED BY CATHETER DILATOR INSERTED VIA RIGHT INTERNAL JUGULAR VEIN

A. Kainuma¹, K. Oshima¹, Y. Okubo², S. Suh¹, N. Fukunaga³, K. Yamazaki¹

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MC-99 NOSOCOMIAL METHEMOGLOBINEMIA RESULTING FROM SELF-ADMINISTRATION OF BENZOCAINE SPRAY

N. Atria, C. R. Hoffman, P. C. Kalikiri, M. S. Green

Anaesthesiology, Drexel University College of Medicine, Philadelphia, Pennsylvania

MC-101 RELOCATING AN ENTIRE WARD WITHOUT SACRIFICING QUALITY OF CARE: PLAN AND EXECUTE

W. Mustafa

Anesthesiology, Boston Medical Center, Boston, Massachusetts

MC-102 A NOVEL NASAL PAP MASK ASSEMBLY PROVIDED CONTINUOUS OXYGENATION DURING GA INDUCTION, VL INTUBATION AND POST-EXTUBATION IN AN OBESE PATIENT WITH ROHHAD SYNDROME FOR ECCE/IOL

O. Lelyanov, C. H. Fratzola, M. A. Woo, J. Tse

Anesthesiology, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MC-103 OVER-SEDATION WITH KETAMINE

K. Cogger, M. Donnelly

Department of Anesthesiology, University of Colorado, Aurora, Colorado

MC-104 USEFULNESS OF CARDIOPULMONARY BYPASS FOR MASSIVE HEMORRHAGE DURING VIDEO-ASSISTED THORACIC SURGERY

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Medically Challenging Cases 17
Abstracts in Poster Discussion Rounds:
MC-21, MC-106 – MC-110
2:45 pm - 4:15 pm Monitor 3

MCC02-17

Poster Moderator: M. Enomoto, MD, Oregon Health and Science University, Portland, Oregon

MC-21 MASSIVE ANTERIOR MEDIASTINAL MASS ANESTHETIC MANAGEMENT

N. Pal¹, K. Breslin¹, P. Nicolato², V. Yajnik³

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Medically Challenging Cases ePosters

MCC02-17, continued

MC-106 PRONE VENTILATION FOR NEW-ONSET ARDS IN THE OPERATING ROOM

K. M. Breslin, A. W. Scharf, S. Stokes, C. Riley, V. Yajnik

Anesthesiology, Virginia Commonwealth University Medical Center, Richmond, Virginia

MC-107 THE MANAGEMENT OF LIFE THREATENING ARTERIAL AND VENOUS THROMBOSIS IN THE SETTING OF HEPARIN INDUCED THROMBOCYTOPENIA AND ACUTE SUBDURAL HEMATOMA

J. O. Johnson, R. A. Gupta

Anesthesiology, Northwestern Memorial Hospital, Chicago, Illinois

MC-108 USE OF CANGRELOR IN THE SETTING OF VA-ECMO COMPLICATED BY REFRACTORY PULMONARY HEMORRHAGE FOLLOWING MULTIVESSEL DRUG ELUTING STENT PLACEMENT

J. F. Skiba¹, T. Seelhammer², E. D. Wittwer²

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MC-109 PROFOUND IN-HOSPITAL NON-ENVIRONMENTAL HYPOTHERMIA – POSSIBLE CAUSES AND PERIOPERATIVE IMPLICATIONS

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MC-110 THE CORRECTION OF CALCIUM CHANNEL BLOCKER TOXICITY WITH MARS THERAPY

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Medically Challenging Cases 18
Abstracts in Poster Discussion Rounds:
MC-111, MC-113 – MC-116
2:45 pm - 4:15 pm Monitor 1

MCC02-18

Poster Moderator: M. Rice, MD, Vanderbilt University, Nashville, Tennessee

MC-111 LOCAL THROMBOLYSIS VIA PULMONARY ARTERY CATHETER FOR TREATMENT OF INTRA-CARDIAC THROMBUS AND PULMONARY EMBOLI

J. Z. Reed, K. Gardner, J. A. Johal, L. F Maracaja Neto

Anesthesiology, University of Texas Health Science Center San Anto, San Antonio, Texas

MC-113 LEFT VENTRICULAR ASSIST DEVICE FOR TREATMENT OF CARDIOGENIC SHOCK DURING LIVER TRANSPLANT

J. Z. Reed¹, L. F Maracaja Neto²

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MC-114 LIVER TRANSPLANTATION AND LVOT OBSTRUCTION

D. Seamans, K. Poterack

Anesthesiology, Mayo Clinic, Phoenix, Arizona

MC-115 IRREVERSIBLE ELECTROPORATION: THE ANESTHETIC MANAGEMENT FOR A NOVEL CANCER ABLATION PROCEDURE

K. Razmjou, J. J. Mueller

Anesthesiology, Medstar Georgetown University Hospital, Washington, DC

MC-116 COMBINED NON-TRANSPLANT CARDIAC SURGERY AND LIVER TRANSPLANTATION: ATRIAL MASS RESECTION FOLLOWED BY LIVER TRANSPLANTATION

E. Abuelkasem, R. M. Planinsic

Anesthesiology, UPMC, Pittsburgh, Pennsylvania

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Medically Challenging Cases 19
Abstracts in Poster Discussion Rounds:
MC-117 – MC-119, MC-121, MC-123
2:45 pm - 4:15 pm Monitor 2

MCC02-19

Poster Moderator: **E. Rosero, MD, MSc**, University of Texas Southwestern Medical Center, Dallas, Texas

MC-117 INTRATHECAL PUMP THERAPY FOR INTRACTABLE HEAD AND NECK CANCER PAIN

J. Chien, E. Kandil

Anesthesiology and Pain Management, University of Texas Southwestern Medical Center, Dallas, Texas

MC-118 LIDOCAINE INFUSION USED FOR TREATMENT OF BILATERAL LOWER EXTREMITY ALLODYNIA IN GUN-SHOT VICTIM

G. Rakkar¹, T. Sparkle¹, J. Mehta²

¹Anesthesiology, University of Texas Medical School at Houston, Houston, Texas, ²Anesthesiology and Acute Pain, University of Texas Health, Houston, Texas

MC-119 EFFECTIVE COMMUNICATION YIELDS SOLUTIONS TO UNCOMMON POSTSURGICAL REACTIONS

P. W. de Luna, T. Tran

Anesthesiology and Critical Care Medicine, Johns Hopkins University, Baltimore, Maryland

MC-121 CHRONIC ILLIOINGUINAL NEURALGIA TREATMENT WITH TRANSVERSE ABDOMINAL PLANE (TAP) BLOCK UNDER ULTRASOUND GUIDANCE

R. Ganta, B. Egbert, B. Bushman

Anesthesiology, Oklahoma University Medical Center, Oklahoma City, Oklahoma

MC-123 SEVERING THE “CORD” DURING SPINE SURGERY: A CASE HIGHLIGHTING COMPLICATIONS OF ABRUPT INTRATHECAL BACLOFEN CESSATION FROM IATROGENIC INTRAOPERATIVE INTRATHECAL PUMP DAMAGE

P. Su, R. Naidu

Department of Anesthesiology and Perioperative Care, University of California San Francisco, San Francisco, California

Medically Challenging Cases 20
Abstracts in Poster Discussion Rounds:
MC-124 - MC-128, MC-130
4:30 pm - 6:00 pm Monitor 3

MCC02-20

Poster Moderator: **S. Verghese, MD**, Children's National Medical Center, Washington, DC

MC-124 LUNG BIOPSY LEADS TO PULMONARY HEMORRHAGE

B. Evans, S. Modlin

Anesthesiology, Rainbow Babies & Children's Hospital, Cleveland, Ohio

MC-125 PERIOPERATIVE MANAGEMENT FOR LEFT CORNEAL TRANSPLANTATION IN A 38 DAY-OLD TERM NEONATE WITH PETERS ANOMALY

R. H. Weaver, B. Wetherington, A. Reddy

Anesthesiology, University of Kentucky, Lexington, Kentucky

MC-126 A CHILD WITH A HERBST APPLIANCE UNDERGOING A GENERAL ANESTHETIC

M. Goldfinger

Pediatric Anesthesiology, University Hospitals Case Medical Center, Cleveland, Ohio

MC-127 EPIDERMOLYSIS BULLOSA AN OPEN AND SHUT CASE

N. Patel

Pediatric Anesthesiology, All Children's Hospital, St. Petersburg, Florida

MC-128 CUTANEOUS EXTENSION OF GROUP B STREP CAUSING OBSTRUCTING BULLAE AND AIRWAY COMPROMISE IN A 33 WEEK NEONATE

R. Ekeoduru, E. Nesrsta

Department of Anesthesiology, University of Texas Health Science Center at Houston, Houston, Texas

MC-130 PERIOPERATIVE SURGICAL HOME: A NOVEL MULTIDISCIPLINARY COLLABORATIVE APPROACH TO A COMPLEX MULTI-STAGED HEAD AND NECK PROCEDURE

S. Uribe Marquez, C. Mordis, D. Galuska

Anesthesiology, Henry Ford Hospital, Detroit, Michigan

Medically Challenging Cases ePosters

Medically Challenging Cases 21
Abstracts in Poster Discussion Rounds:
MC-131 – MC-135, MC-149
4:30 pm - 6:00 pm Monitor 1

MCC02-21

Poster Moderator: **L. Sohn, MD**, Ann & Robert K. Lurie Children's Hospital, Northwestern University Feinberg School of Medicine, Chicago, Illinois

MC-131 DIFFICULT AIRWAY DURING TRACHEAL STENT PLACEMENT

A. K. Nair¹, **A. Kulkarni**², **P. Singh**¹

¹Anesthesiology, Elmhurst Hospital Center, Elmhurst, New York,

²Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York

MC-132 A NOVEL NASAL PAP MASK ASSEMBLY USED AS A RESCUE DEVICE TO MAINTAIN SPONTANEOUS VENTILATION AND OXYGENATION IN AN ELDERLY HEPARINIZED PATIENT WITH AIRWAY OBSTRUCTION UNDER MAC FOR CYSTOSCOPY AND URETERAL STENT INSERTION

D. W. Hao, **A. Rianto**, **S. Barsoum**, **J. Tse**, **C. W. Fjotland**

Anesthesiology, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MC-133 THE KING AIRWAY CONUNDRUM

V. Satish, **A. Nahar**

Anesthesiology, Montefiore Medical Center, Bronx, New York

MC-134 ENDOTRACHEAL TUBE OBSTRUCTION BY PREOPERATIVE ORAL ANALGESICS "PAIN PACK" IN SETTING OF FIBEROPTIC INTUBATION

D. Sisco, **B. Changyaleket**

Anesthesia, University of Illinois Chicago, Chicago, Illinois

MC-135 THE RISK OF REGURGITATION AND ASPIRATION FOLLOWING ANESTHETIC INDUCTION IN A PATIENT WITH PRIOR GASTRIC BANDING

J. W. Burnett, **R. Mody**, **J. Weed**

Anesthesiology, Tulane University School of Medicine, New Orleans, Louisiana

MC-149 RECURRENT GLOTTIC EDEMA REQUIRING EMERGENT REINTUBATION

D. S. Wang, **J. Sobol**

Department of Anesthesiology, Columbia University, New York, New York

Scholars' ePosters

Cardiovascular Anesthesiology 1
Abstracts in Poster Discussion Round: S-410 – S-417
2:45 pm - 4:15 pm Monitor 6

SCH02-04

Poster Moderator: H. Kinoshita, MD, PhD, Aichi Medical University, Nagakute, Japan

S-410 FTY720 PREVENTS OXLDL INDUCED MACROPHAGE TRAPPING VIA REDUCTION OF HEME OXYGENASE 1 EXPRESSION IN ATHEROSCLEROTIC BURDEN MICE

H. Janssen¹, J. Larmann¹, S. Immenschuh², G. Theilmeier³

¹Anesthesia, University Hospital Heidelberg, Heidelberg, Germany, ²Tranfusion Medicine, Medical School Hannover, Hannover, Germany, ³Anesthesia, Carl von Ossietzky University Oldenburg, Oldenburg, Germany

S-411 TRPA1 ACTIVATION REDUCES MYOCARDIAL INJURY IN RODENTS

Y. Lu, H. Piplani, C. M. Hurt, S. L. McAllister, E. R. Gross

Department of Anesthesiology, Stanford University, Stanford, California

S-412 PATHOPHYSIOLOGY OF PERIOPERATIVE ACUTE CORONARY SYNDROMES: A CORONARY ANGIOGRAPHIC INVESTIGATION

S. Rao¹, P. M. Lavigne², M. A. Helwani¹, P. Nagele¹

¹Anesthesiology, Washington University, St. Louis, Missouri, ²Medicine (Cardiovascular), Washington University, St. Louis, Missouri

S-413 HIGH-SENSITIVITY CARDIAC TROPONIN FOR THE DIAGNOSIS OF PERIOPERATIVE MYOCARDIAL INJURY AND INFARCTION: A COMPARISON OF DIFFERENT APPROACHES

J. C. Brown, S. Rao, E. Samaha, P. Nagele

Anesthesiology, Washington University at St. Louis, Saint Louis, Missouri

S-414 HEPARINIZED FIBRINOGEN LEVEL VERSUS POST-PROTAMINE REVERSAL FIBRINOGEN LEVEL WHILE ON CARDIOPULMONARY BYPASS: IS THERE A DIFFERENCE?

B. Blick, C. McCoy, S. Toy

Anesthesiology, University of Kansas, Wichita, Kansas

S-415 NON-CARDIAC SURGERY IN PATIENTS WITH LEFT VENTRICULAR ASSIST DEVICES: AN INSTITUTIONAL OUTCOMES STUDY

M. R. Mathis¹, M. Engoren¹, S. Kheterpal¹, E. S. Jewell², S. Sathishkumar¹

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S-417 SAFETY OF RAPID RIGHT VENTRICULAR PACING FOR CONTROLLED HYPOTENSION DURING ENDOVASCULAR AORTIC ARCH REPAIR

M. P. Bokoch¹, A. Shalabi¹, J. S. Hiramoto², E. P. Lobo¹

¹Anesthesia and Perioperative Care, University of Southern California, San Francisco, San Francisco, California, ²Vascular Surgery, University of Southern California, San Francisco, San Francisco, California

S-416 MORPHINE ACTIVATES ENDOTHELIAL CELLS AND PROMOTES MONOCYTE ADHESION IN VITRO

J. Neubauer¹, M. Buelt¹, H. Janssen², J. Larmann²

¹Department of Anesthesiology and Intensive Care Medicine, Hannover Medical School, Hannover, Germany, ²Department of Anesthesiology, University Hospital Heidelberg, Heidelberg, Germany

Economics, Education and Policy 1
Abstracts in Poster Discussion Round: S-426 – S-431
2:45 pm - 4:15 pm Monitor 5

SCH02-05

Poster Moderator: E. Nemergut, MD, University of Virginia Health System, Charlottesville, Virginia

S-426 INCREASING UPTAKE OF COGNITIVE AIDS IN CRITICAL EVENTS

A. Siddiqui¹, E. Ng², T. Everett²

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Scholars' ePosters

SCH02-05, continued

S-427 PREDICTORS OF READMISSIONS FOLLOWING HEART VALVE SURGERY

F. Mahmood¹, E. Mahmood², Z. O. Knio³, R. Matyal⁴

¹Medicine, Ross University School of Medicine, New Miramar, Florida, ²Cardiology, Feinberg School of Medicine, Chicago, Illinois, ³Surgery, Beth Israel Deaconess Medical Center, Boston, Massachusetts, ⁴Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-428 HANDOFF CURRICULUM IN ANESTHESIA RESIDENCY PROGRAMS: A NATIONAL SURVEY OF PROGRAM DIRECTORS

M. Plash¹, A. K. Brooks², M. B. Lane-Fall³, L. Riesenbergl⁴

¹School of Medicine, University of Alabama at Birmingham Medical Center, Birmingham, Alabama, ²Anesthesiology, Wake Forest Medical Center, Winston-Salem, North Carolina, ³Anesthesiology and Critical Care, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, ⁴Anesthesiology and Perioperative Medicine, University of Alabama at Birmingham School of Medicine, Birmingham, Alabama

S-429 QUALITY IMPROVEMENT INITIATIVE; DEVELOP A STANDARDIZED HAND-OFF PROTOCOL FOR UTILIZATION AMONGST ANESTHESIA PROVIDERS TO ENHANCE INTRAOPERATIVE COMMUNICATION

T. Kundu¹, P. Upadya²

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S-430 LEARNING PREFERENCES OF ANESTHESIA RESIDENTS: A SINGLE INSTITUTION STUDY

S. Eosakul, V. Wong, J. D. Mitchell

Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-431 INTRAOPERATIVE TRANSESOPHAGEAL ECHOCARDIOGRAPHY IS COST EFFECTIVE FOR PEDIATRIC CARDIAC SURGERY: A SYSTEMATIC REVIEW

D. N. Levin¹, J. Taras², K. Taylor²

¹Department of Anesthesia, University of Toronto, Toronto, Ontario, Canada, ²Department of Anesthesia, Hospital for Sick Children, University of Toronto, Toronto, Ontario, Canada

Perioperative Anesthesia 1
Abstracts in Poster Discussion Round: S-456 – S-460
2:45 pm - 4:15 pm Monitor 4

SCH02-06

Poster Moderator: M. Marques MD, University of Alabama at Birmingham, Birmingham, Alabama

S-456 PERIOPERATIVE TLR4 MODULATION IN A MOUSE MODEL OF SURGICAL TRAUMA: A SYSTEMS-WIDE ANALYSIS BY SINGLE-CELL MASS CYTOMETRY

V. L. Tawfik, E. A. Ganio, N. Aghaeepour, M. S. Angst, D. J. Clark, B. Gaudilliere

Anesthesiology, Perioperative and Pain Medicine, Stanford University, Palo Alto, California

S-457 THE VAPE STUDY: VETERAN ATTITUDES TOWARDS PERIOPERATIVE SMOKING CESSATION AND E-CIGARETTE USE

C. Sirivoranankul¹, A. W. Wallace², M. Arjomandi³, S. M. Lee²

¹Faculty of Medicine, Chicago Medical School, Chicago, Illinois, ²Anesthesiology, UCSF and SF VAMC, San Francisco, CA, ³Department of Pulmonary and Critical Care Medicine, UCSF and SF VAMC, San Francisco, California

S-458 PRACTICE PATTERNS AND OUTCOMES OF OLDER ANESTHESIOLOGISTS

E. L. Whitlock¹, A. Liao², L. Chen¹, J. E. Havidich³, R. P. Dutton⁴

¹Anesthesia & Perioperative Care, University of California, San Francisco, San Francisco, California, ²Pediatrics, Indiana University School of Medicine, Indianapolis, Indiana, ³Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire, ⁴Anesthesiology, United States Anesthesia Providers, Dallas, Texas

S-459 IMPLEMENTATION OF CLINICAL CARE PATHWAYS IS ASSOCIATED WITH A GENERALIZED INCREASE IN THE USE OF NON-OPIOID MULTIMODAL ANALGESIA

H. Shi¹, M. Terekhov¹, J. M. Ehrenfeld², M. D. McEvoy¹, A. B. King¹, J. P. Wanderer³

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Scholars' ePosters

SCH02-06, continued

S-460 POSTOPERATIVE COMPLICATIONS ARE ASSOCIATED WITH PERSISTENT PAIN

G. Rangrass, A. Ben Abdallah, A. Sharma, S. Haroutounian, T. Wildes, M. S. Avidan

Department of Anesthesiology, Washington University St. Louis School of Medicine, St. Louis, Missouri

Ambulatory Anesthesia 1
Abstracts in Poster Discussion Round: S-401 – S-404
4:30 pm - 6:00 pm Monitor 5

SCH02-07

Poster Moderator: G. Joshi, MBBS, MD, FFARCSI, University of Texas Southwestern Medical Center, Dallas, Texas

S-401 INCIDENCE AND PREDICTORS OF HOSPITAL READMISSION AFTER AMBULATORY CHOLECYSTECTOMY

E. B. Rosero¹, G. P. Joshi²

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S-402 SAME-DAY CANCELLATION IN OUTPATIENT SURGERY: A RETROSPECTIVE REVIEW AT A LARGE ACADEMIC TERTIARY REFERRAL CENTER

L. K. Licatino, J. A. Hyder, M. M. Smith, W. Mauermann, M. E. Warner, D. W. Barbara

Anesthesiology, Mayo Clinic, Rochester, Minnesota

S-403 VENTILATORY EFFECTS OF GASTROENTEROLOGIST-ADMINISTERED SEDATION FOR COLONOSCOPY

K. Kristiansen¹, J. T. Mathews¹, D. M. Mathews¹, J. Vecchio²

¹Anesthesiology, University of Vermont College of Medicine, Burlington, Vermont, ²Medicine-Gastroenterology, University of Vermont College of Medicine, Burlington, Vermont

S-404 PREOPERATIVE FALLS AND THEIR ASSOCIATION WITH FUNCTIONAL DEPENDENCE AND QUALITY OF LIFE

V. L. Kronzer, R. Tang, A. P. Schelble, F. Sadiq, M. S. Avidan

Anesthesiology, Washington University School of Medicine, St. Louis, Missouri

Technology, Computing & Simulation, Equipment Monitoring 1
Abstracts in Poster Discussion Round: S-467 – S-472
4:30 pm - 6:00 pm Monitor 6

SCH02-08

Poster Moderator: M. Ozaki, MD, PhD, Tokyo Women's Medical University, Tokyo, Japan

S-467 PATTERNS OF USE OF A CLINICAL ANESTHESIA CALCULATOR AND DECISION SUPPORT TOOL IN AN INTERNATIONAL PROVIDER POPULATION

V. O'Reilly-Shah

Department of Anesthesiology, Division of Pediatric, Emory University School of Medicine, Atlanta, Georgia

S-468 EFFECTIVENESS OF HYPOTENSION TREATMENT BETWEEN BOLUS AND CONTINUOUS INFUSION OF PHENYLEPHRINE: A RANDOMIZED COMPARISON USING AN IN SILICA SIMULATION

S. S. Pfost¹, N. Ribeiro Marques¹, J. Wolf¹, G. Cao², T. Luspay², K. Grigoriadis², G. Kramer¹

¹Anesthesiology, University of Texas Medical Branch, Galveston, Texas, ²Mechanical Engineering, University of Houston, Houston, Texas

S-469 A SYSTEMATIC REVIEW AND META-ANALYSIS OF DEPTH OF ANAESTHESIA MONITORING DURING PROCEDURAL SEDATION AND ANALGESIA

A. W. Conway¹, J. Sutherland²

¹Institute of Health and Biomedical Innovation, Queensland University of Technology, Kelvin Grove, Australia, ²Department of Anaesthesia, Mid North Coast LHD, Bonville, Australia

S-470 DESIGNING A NOVEL MANUAL COMMUNICATION SYSTEM FOR MECHANICALLY VENTILATED ICU PATIENTS

M. A. Madsen¹, L. R. Hochberg², S. O. Heard³, J. M. Walz⁴

¹Anesthesiology, University of Massachusetts, Worcester, Massachusetts, ²Neurology (Massachusetts General Hospital)/Engineering (Brown University), Brown University/Massachusetts General Hospital/Providence VA Medical Center, Providence, Rhode Island, ³Anesthesiology, University of Massachusetts Medical School, Worcester, Massachusetts, ⁴Anesthesiology, University of Massachusetts Memorial Healthcare, Worcester, Massachusetts

Scholars' ePosters

SCH02-08, continued

S-471 EFFECT OF NON-INVASIVE BLOOD PRESSURE CUFF INFLATION ON INTRA-ARTERIAL BLOOD PRESSURE VALUES

V. Sheshadri¹, A. Tiwari¹, M. Nagappa², L. Venkatraghavan¹

¹Anesthesiology, Toronto Western Hospital, University of Toronto, Toronto, Ontario, Canada, ²Anesthesiology, Mount Sinai Hospital, Toronto, Ontario, Canada

S-472 STATE OF THE ANESTHESIA BLOGOSPHERE IN 2016

J. F. Pearson¹, J. S. Brownstein², D. Palilla¹

¹Anesthesiology, Hofstra Northwell School of Medicine, New Hyde Park, New York, ²Children's Hospital Informatics Program, Children's Hospital Boston, Boston, Massachusetts

Perioperative Anesthesia 2
Abstracts in Poster Discussion Round: S-455, S-461 – S-463
4:30 pm – 6:00 pm – Monitor 4

SCH02-09

Poster Moderator: A. Tung, MD, University of Chicago, Chicago, Illinois

S-455 A NOVEL ASSOCIATION BETWEEN HIGH DENSITY LIPOPROTEIN LEVELS AND THE RISK OF ACUTE KIDNEY INJURY AFTER CARDIAC SURGERY

L. Smith¹, D. K. Smith², M. F. Linton³, F. T. Billings⁴

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Biostatistics, Vanderbilt University Medical Center, Nashville, Tennessee, ³Departments of Medicine and Pharmacology, Division of Cardiovascular Medicine, Division of Cardiology, Vanderbilt University Medical Center, Nashville, Tennessee, ⁴Anesthesiology, Vanderbilt University, Nashville, Tennessee

S-461 EFFECTS OF PERIOPERATIVE HEMORRHAGE AND BETA-BLOCKER THERAPY ON CARDIOVASCULAR OUTCOMES AFTER NONCARDIAC SURGERY

J. C. Brown¹, A. Salter², S. Rao¹, E. Samaha¹, P. Nagele¹

¹Anesthesiology, Washington University at St. Louis, Saint Louis, Missouri, ²Biostatistics, Washington University at St. Louis, Saint Louis, Missouri

S-462 SATISFACTION OF ANESTHESIA PROVIDERS WITH CURRENT PRACTICES OF TRANSITIONS OF CARE

T. Kundu, P. Upadya

Anesthesiology, St. Joseph's Regional Medical Center, Paterson, New Jersey

S-463 A RANDOMIZED CONTROLLED TRIAL OF NABILONE FOR THE PREVENTION OF POSTOPERATIVE NAUSEA AND VOMITING IN ELECTIVE SURGERY

D. N. Levin¹, Z. Dulberg¹, A. Chan², G. Hare¹, C. Mazer¹, A. Hong¹

¹Department of Anesthesia, Keenan Research Centre and Li Ka Shing Knowledge Institute, St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada, ²Women's College Research Institute, University of Toronto, Toronto, Ontario, Canada

Moderated Poster Discussion Sessions ■ Monday, May 23

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Learner Objectives: As a result of participating in this educational activity, the learner will be able to identify research findings relative to anesthesiology and evaluate their application to professional practice.

General Physical Posters

Anesthetic Pharmacology 3
Abstracts in Poster Discussion Round: S-46 – S-53
8:00 am - 9:30 am

PR03-36

Poster Moderator: J. Parness, MD, PhD, University of Pittsburgh, Pittsburgh, Pennsylvania

S-46 AGE AND RESIDUAL NEUROMUSCULAR BLOCKADE

M. M. Todd¹, *E. Bayman¹, B. Hindman¹, D. DeMik², D. Elhag²*

¹Anesthesia, University of Iowa, Iowa City, Iowa, ²Anesthesia, University of Iowa Carver College of Medicine, Iowa City, Iowa

S-47 INTRAOPERATIVE ANTIBIOTIC PROPHYLAXIS BY CONTINUOUS INFUSION VS INTERMITTENT BOLUSES FOR PANCREATIC SURGERIES

P. Balduyeu¹, *N. Gravenstein², H. Le²*

¹Anesthesiology, University of Health Shands Hospital Gainesville, Gainesville, Florida, ²Anesthesiology, University of Florida, Gainesville, Florida

S-48 EFFECT OF ABCB1 RS12720464 AND RS1055302 POLYMORPHISMS IN CHINESE PATIENTS ON THE TIME-COURSE OF ACTION OF ROCURONIUM ADMINISTERED AS A SINGLE DOSE

T. Qi¹, Y. Zhou²

¹Anesthesiology, Anesthesiology First Affiliated Hospital, Zhengzhou, China, ²Anesthesiology, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts

S-49 SIMULATION-BASED ASSESSMENT OF AWARENESS TO RACE DIFFERENCES IN PROPOFOL PHARMACODYNAMICS

S. Lampotang¹, *D. E. Lizardas¹, H. Derendorf², N. Gravenstein¹, B. Lok³, J. Quarles⁴*

¹Anesthesiology, University of Florida, Gainesville, Florida, ²Pharmaceutical Sciences, University of Florida, Gainesville, Florida, ³Computer and Information Sciences and Engineering, University of Florida, Gainesville, Florida, ⁴Computer Science, University of Texas at San Antonio, San Antonio, Texas

S-50 EVALUATION AND CONTROL OF WASTE ANESTHETIC GAS (WAG) IN THE POST-ANESTHESIA CARE UNIT (PACU) WITHIN PATIENT AND CAREGIVER BREATHING ZONE

G. Williams¹, E. G. Pivalizza², S. Gumbert², O. L. Mancillas², T. Burnett², T. A. Syed², C. A. Hagberg²

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S-51 INHIBITION OF TRPM7 CHANNELS IN HEK-293 CELLS BY LOCAL ANESTHETICS

D. Holiprosad¹, K. Etwaru¹, C. Xiao², J. Dilger¹, J. Lin³

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S-52 LOCAL ANESTHETICS INHIBITED BREAST CANCER CELL GROWTH

C. Xiao, *S. Chakraborty, J. Dilger, J. Lin*

Department of Anesthesiology, Stony Brook University, Stony Brook, New York

S-53 A PHASE 1 DOSE OPTIMIZATION STUDY OF ABP-700 WITH OPIATES AND/OR MIDAZOLAM PRE-MEDICATION IN HEALTHY ADULT VOLUNTEERS TARGETING INDUCTION OF GENERAL ANESTHESIA

S. Meier¹, *P. Meyer¹, A. R. Absalom¹, S. P. Sweeney², J. A. Campagna², J. J. Marota³, M. M. Struys¹*

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General Physical Posters

Patient Safety 3
Abstracts in Poster Discussion Round: S-223, S-227 – S-233
8:00 am - 9:30 am

PR03-37

Poster Moderator: P. Picton, MD, MRCP, FRCA, University of Michigan, Ann Arbor, Michigan

S-223 ONE PATIENT'S CARDIAC ARREST IN THE OPERATING ROOM: SIX PERSPECTIVES ON EMERGENCY MANUAL USE, READER ROLE, AND TEAMWORK

S. N. Goldhaber-Fiebert¹, *S. B. Bereknyei Merrell², A. V. Agarwala³, K. McCarty⁴, J. Cooper⁵, A. Nevedal², S. Asch²*

¹Anesthesiology, Perioperative and Pain Medicine, Stanford School of Medicine, Stanford, California, ²Medicine, Stanford School of Medicine, Stanford, California, ³Anesthesiology, Critical Care, and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ⁴Medicine, Boston Medical Center, Boston, Massachusetts, ⁵Anesthesia, Critical Care and Pain Medicine, Harvard Medical School; Massachusetts General Hospital, Boston, Massachusetts

S-227 BLOOD PRESSURE READINGS: DOES CUFF SIZE MATTER?

I. I. Logvinov, S. Pai

Anesthesiology, Mayo Clinic, Jacksonville, Florida

S-228 IMPROVEMENT IN ADHERENCE WITH LUNG PROTECTIVE VENTILATION STRATEGY IN ONE-LUNG VENTILATION: THE ASSOCIATED BYPRODUCT OF CHANGES MADE TO DEFAULT VENTILATOR SETTINGS AND COGNITIVE AID DEVELOPMENT

E. P. Anderson, S. P. Bender, W. Paganelli, J. Mathews, D. Porter

Department of Anesthesiology, University of Vermont Medical Center, Burlington, Vermont

S-229 ADJUSTMENT OF DEFAULT VENTILATOR SETTINGS AND COGNITIVE AID IMPLEMENTATION IMPROVES ADHERENCE TO LUNG PROTECTIVE VENTILATION STRATEGY DURING CARDIAC SURGERY

S. P. Bender, E. Anderson, D. Porter, W. G. Tharp, J. Mathews, J. Martin, W. Paganelli

Anesthesiology, University of Vermont Medical Center, Burlington, Vermont

S-230 WHAT IS THE MOST EFFECTIVE WAY TO CHANGE NEOSTIGMINE DOSING PRACTICE? INSIGHTS FROM A QI INITIATIVE TO OPTIMIZE THE USE OF NEUROMUSCULAR BLOCKING AGENTS

H. Chitilian, A. V. Agarwala, F. P. Timm, M. P. Puglia, M. J. Meyer, A. Doney, M. Eikermann

Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-231 INTRAVENOUS AIR: THE PARTIALLY INVISIBLE PHENOMENON

C. Varga¹, N. Gravenstein², I. Luria²

¹Respiratory Solutions, CareFusion, Yorba Linda, California, ²Anesthesiology, University of Florida, Gainesville, Florida

S-232 TEMPERATURE AND HUMIDITY OF INSPIRED ANESTHETIC GASES INCREASED USING METABOLIC FRESH GAS FLOW (0,35 L/min). AS LOWER THE FRESH GAS FLOW - AS HIGHER THE TEMPERATURE AND HUMIDITY OF INSPIRED ANESTHETIC GASES

C. W. Hoenemann, M. Ruebsam

Anesthesia and Critical Care, Marienhospital Vechta, Vechta, Germany

S-233 RAPID ASSESSMENT OF PULMONARY ASPIRATION RISKS USING THE PREOPERATIVE ABDOMINAL CT SCAN

G. J. Bordelon, J. Diaz, J. Riopelle, A. D. Kaye

Anesthesiology, LSU School of Medicine, New Orleans, Louisiana

Pediatric Anesthesiology 3
Abstracts in Poster Discussion Round: S-256, S-258 – S-262
8:00 am - 9:30 am

PR03-38

Poster Moderator: Y. Gozal, MD, Shaare Zedek Medical Center, Jerusalem, Israel

S-256 A COMPARISON OF MIDAZOLAM AND ZOLPIDEM AS ORAL PREMEDICATION IN CHILDREN

P. D. Leiter¹, A. H. Hanna¹, R. Applegate², W. Sullivan-Lewis¹, G. D. Andrews¹, D. Wallace¹

¹Anesthesiology, Loma Linda University Children's Hospital, Loma Linda, California, ²Anesthesiology, Loma Linda University School of Medicine, Loma Linda, California

General Physical Posters

PR03-38, continued

S-258 REDUCING PAIN ASSOCIATED WITH PROPOFOL INJECTION IN THE PEDIATRIC POPULATION: A RANDOMIZED CONTROLLED TRIAL

R. Dickson¹, K. G. Belani², A. Wynia¹, J. Srikanthan¹

¹Department of Anesthesiology, University of Minnesota - Twin Cities, Minneapolis, Minnesota, ²Anesthesiology, University of Minnesota, Minneapolis, Minnesota

S-259 DELAYED EMERGENCE IN PEDIATRIC PATIENTS WITH NEUROLOGIC DISEASE PRESENTING FOR AMBULATORY SURGERY

K. Dajani, M. Almualim, A. Menon, J. Volpi-Abadie, K. Lund

Anesthesiology, Ochsner Health System, New Orleans, Louisiana

S-260 EFFECT OF TRANEXAMIC ACID BASED ON PHARMACOKINETICS IN PEDIATRIC PATIENTS UNDERGOING CRANIOSYNOSTOSIS SURGERY: RANDOMIZED CONTROLLED TRIAL

E. Kim, J. Park, B. Koo

Department of Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea

S-261 EFFECTIVENESS OF ANTIEMETICS IN POST DISCHARGE NAUSEA AND VOMITING IN CHILDREN

K. Devendran, R. A. Reinsel, C. Xiao, A. Chandrakantan

Anesthesiology, Stony Brook Medicine, Stony Brook, New York

S-262 RACIAL DISPARITIES IN THE PAIN MANAGEMENT OF CHILDREN IN THE POST ANESTHESIA CARE UNIT

L. Porter¹, O. Nafiu²

¹Anesthesiology, University of Michigan, Ann Arbor, Michigan,

²Anesthesiology, University of Michigan Health Systems, Ann Arbor, Michigan

Regional Anesthesia 2
Abstracts in Poster Discussion Round:
S-322 – S-323, S-325 – S-328
8:00 am - 9:30 am

PR03-39

Poster Moderator: **R. Wardhan, MD**, Yale School of Medicine, New Haven, Connecticut

S-322 ADDUCTOR CANAL BLOCKS: CHANGING PRACTICE PATTERNS AND ASSOCIATED QUALITY PROFILE

M. M. Masaracchia, B. D. Sites, M. D. Herrick, P. R. Hartmann

Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

S-323 EFFECT OF DEXAMETHASONE AS AN ADJUNCT ON PERIPHERAL NERVE BLOCK DURATION: A RETROSPECTIVE STUDY UTILIZING A QUALITY ASSURANCE DATABASE

G. Schnepfer¹, B. Kightlinger¹, S. Aho¹, Y. Jiang², B. Wolf², E. Bolin¹, S. H. Wilson¹

¹Anesthesiology, Medical University of South Carolina, Charleston, South Carolina, ²Public Health Sciences, Medical University of South Carolina, Charleston, South Carolina

S-325 PECTORAL BLOCKS AS AN ALTERNATIVE FOR PAIN MANAGEMENT AFTER VIDEO ASSISTED THORACOSCOPIC SURGERIES AND ITS POTENTIAL ROLE IN ENHANCING POSTOPERATIVE RECOVERY

V. Kumar, M. Gaber, F. Moore, R. Diaz, M. R. Castresana

Anesthesiology, Medical College of Georgia at Georgia Regents University, Augusta, Georgia

S-326 SINGLE-SHOT SUPRACLAVICULAR CATHETERS: A MATCHED CASE-CONTROL ANALYSIS OF A NEW TECHNIQUE IN PEDIATRIC REGIONAL ANESTHESIA

V. Ng, J. Long, E. Reina, J. J. Hajduk, N. Patel, F. Svigos, S. Suresh

Department of Anesthesiology, Ann & Robert H. Lurie Children's Hospital, Chicago, Illinois

General Physical Posters

PR03-39, continued

S-327 A DOUBLE BLINDED, RANDOMIZED TRIAL COMPARING CONTINUOUS VERSUS SINGLE INJECTION FEMORAL NERVE BLOCK ANALGESIA AFTER TOTAL KNEE ARTHROPLASTY: PATIENT OUTCOMES, LENGTH OF STAY AND PRACTICALITY IN A COMMUNITY HOSPITAL SETTING

V. Dixit¹, S. Walsh², S. Fathima³, J. Royal³, A. T. Seviciu¹, I. Schwendt¹, K. Spittler¹

¹Anesthesia, Eastern Maine Medical Center, Bangor, Maine, ²Orthopedic, Eastern Maine Medical Center, Bangor, Maine, ³Clinical Research Center, Eastern Maine Medical Center, Bangor, Maine

S-328 GENERAL ANESTHESIA OR PARAVERTEBRAL BLOCK: RETROSPECTIVE INCIDENCE OF URINARY RETENTION AFTER INGUINAL HERNIA REPAIR

J. Lee, S. Padron, R. Greengrass, S. Bowers

Anesthesiology, Mayo Clinic, Jacksonville, Florida

Cardiovascular Anesthesiology 3
Abstracts in Poster Discussion Round: S-68 – S-75
10:30 am - 12:00 pm

PR03-40

Poster Moderator: Q. Ott, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-68 ROLE OF MACROPHAGE AUTOPHAGY IN THE PATHOPHYSIOLOGY OF AORTIC ANEURYSM IN MICE

A. Kuwabara¹, M. Kotoda², K. Mitsui³, H. Furukawa³, M. Koral³, T. Hashimoto³

¹Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan, ²Anesthesiology, University of Yamanashi, Yamanashi, Japan, ³Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California

S-69 IMPACT OF HEART RATE ON POST-INDUCTION PULSE PRESSURE VARIATION IN NON-LUNG INJURED PATIENTS

A. M. Mittel¹, B. Subramaniam², A. Mueller¹

¹Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts, ²Anesthesiology, Pain Division and Critical Care, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-70 PULSE OXIMETER USE BEYOND SATURATION DETERMINATION: PPG AUGMENTED INDEX & ARTERIAL COMPLIANCE

A. A. Alian, K. Shelley

Anesthesia Department, Yale University School of Medicine, New Haven, Connecticut

S-71 STATIC AUTOREGULATION REMAINS INTACT DURING DEEP HYPOTHERMIA IN NEONATAL SWINE

D. Goswami, K. McLeod, S. Leonard, L. McGuffey, K. K. Kibler, D. Andropoulos, K. Brady

Anesthesiology, Texas Children's Hospital, Houston, Texas

S-72 EXTRACORPOREAL CIRCULATION DURING LUNG TRANSPLANTATION PROCEDURES: A META-ANALYSIS

D. J. Hoechter¹, Y. Shen², S. Guenther³, R. Schramm³, V. von Dossow¹

¹Department of Anesthesiology, University Hospital Munich, Munich, Germany, ²Institute of Medical Biometry and Epidemiology, University Hospital Munich, Munich, Germany, ³Clinic of Cardiac Surgery, University Hospital Munich, Munich, Germany

S-73 ANESTHETIC MANAGEMENT OF CAROTID BODY TUMOR EXCISION: A CASE SERIES

A. E. Gabrielsen¹, P. T. Milonas², J. M. Walz³, M. Mansour⁴, N. C. Watson⁵

¹Anesthesiology, University of Massachusetts, Worcester, Massachusetts, ²Michigan State University College of Human Medicine, Wyoming, Michigan, ³Department of Anesthesiology & Critical Care, University of Massachusetts Memorial Healthcare, Worcester, Massachusetts, ⁴Department of Vascular Surgery, Michigan State University Spectrum Health, Grand Rapids, Michigan, ⁵Department of Anesthesiology & Critical Care, Anesthesia Practice Consultants, Grand Rapids, Michigan

S-74 SEPIAPTERIN ATTENUATES INCREASED MITOCHONDRIAL FISSION AND RESTORES ANESTHETIC CARDIOPROTECTION IN HUMAN CARDIOMYOCYTES EXPOSED TO HIGH GLUCOSE

A. M. Williams¹, S. G. Canfield², I. Zaja¹, J. Olson¹, X. Bai¹, Z. J. Bosnjak¹

¹Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin, ²Chemical and Biological Engineering, University of Wisconsin, Madison, Wisconsin

S-75 GABAA RECEPTOR ACTIVATION DECREASES MYOGENIC TONE IN SMALL RESISTANCE ARTERIES IN MICE

P. D. Yim¹, C. W. Emala¹, G. Gallos²

¹Anesthesiology, Columbia University, New York, New York, ²Anesthesiology, Columbia College of Physicians and Surgeons, New York, New York

General Physical Posters

Critical Care 4
Abstracts in Poster Discussion Round: S-106 – S-113
10:30 am - 12:00 pm

PR03-41

Poster Moderator: H. Nishioka, MD, University of Illinois Hospital,
Chicago, Illinois

S-106 ELEVATED BLOOD UREA NITROGEN INCREASE THE RISK OF MORTALITY INDEPENDENT OF ACUTE KIDNEY INJURY AFTER CARDIAC SURGERY

N. Yoh, L. D. Rosenberg, A. Mechling, T. Lai, G. Wagener

Anesthesiology, Columbia University, New York, New York

S-107 THE VALIDITY OF THE USE OF CEFMETAZOLE OR FLOMOXEF FOR THE PREVENTION OF SURGICAL SITE INFECTION (SSI) IN BILIARY TRACT PROCEDURES AND COLORECTAL PROCEDURES

M. Kinoshita¹, Y. Asakura², M. Ozaki³

¹Department of Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan, ²Department of Anesthesiology, Nagoya Kyoritsu Hospital, Nagoya, Japan, ³Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan

S-108 EPIDEMIOLOGICAL ANALYSIS OF SERUM ANTI-PSEUDOMONAS AERUGINOSA PCR TITERS IN ADULTS

H. Yasumoto

Anesthesiology, Kyoto Prefectural University of Medicine, Kyoto, Japan

S-109 AUTOLOGOUS MYELOID CELLS TRANSPLANT RESTORES THE LONG-TERM POST SEPTIS IMMUNE SYSTEM DECLINE IN HUMANIZED MICE

K. Laudanski¹, M. Zawadka²

¹Anesthesiology and Critical Care, University of Pennsylvania, Philadelphia, Pennsylvania, ²II Department of Anesthesiology and Critical Care, Medical University of Warsaw, Warsaw, Poland

S-110 SAFETY AND POSSIBLE BENEFITS OF SEVOFLURANE ON THE DAMAGED BLOOD BRAIN BARRIER IN A RAT MODEL OF SUBARACHNOID HEMORRHAGE

M. Schläpfer¹, T. Restin², B. Beck-Schimmer¹

¹University Hospital Zurich, Institute of Anesthesiology, Zurich, Switzerland, ²Institute of Physiology, University Zurich, Zurich, Switzerland

S-111 EFFECTS OF CANNABINOID RECEPTORS AND GPR55 MODULATION ON EXPERIMENTAL ENDOTOXEMIA IN MICE

H. Yang¹, J. Zhou², A. W. Stadnyk¹, C. Lehmann³

¹Microbiology & Immunology, Dalhousie University, Halifax, Nova Scotia, Canada, ²Pharmacology, Dalhousie University, Halifax, Nova Scotia, Canada, ³Anesthesia, Dalhousie University, Halifax, Nova Scotia, Canada

S-112 HIGH FLOW NASAL CANNULA VERSUS NASAL CONTINUOUS POSITIVE AIRWAY PRESSURE FOR THE TREATMENT OF RESPIRATORY FAILURE AFTER PEDIATRIC CARDIAC SURGERY: A RETROSPECTIVE STUDY

N. Shioji, T. Kanazawa, T. Iwasaki, K. Shimizu, T. Suemori, K. Sugimoto, H. Morimatsu

Department of Anesthesiology and Resuscitology, Okayama University Hospital, Okayama, Japan

S-113 IMPACT OF INTRAOPERATIVE RIGHT VENTRICLE DYSFUNCTION ON ACUTE KIDNEY INJURY AND DELIRIUM FOLLOWING CARDIAC SURGERY

S. Dave, F. T. Billings, Y. Liang

Anesthesiology, Vanderbilt University, Nashville, Tennessee

Pain Medicine 2
Abstracts in Poster Discussion Round:
S-199 – S-201, S-204 – S-205
10:30 am - 12:00 pm

PR03-42

Poster Moderator: C. Mantilla, MD, PhD, Mayo Clinic, Rochester, Minnesota

S-199 KETAMINE INFUSION FOR POSTOPERATIVE PAIN CONTROL AFTER MAJOR OPEN ABDOMINAL SURGERY: A RETROSPECTIVE COHORT PILOT STUDY

M. T. Albert¹, N. Maltezos¹, J. Knuth¹, S. Kim², R. Bhullar¹

¹Anesthesiology, Albany Medical Center, Albany, New York, ²Albany Medical College, Albany Medical College, Albany, New York

S-200 COMPARISON OF PREGABALLIN AND TRAMADOL FOR PREEMPTIVE ANALGESIA AFTER LAPAROSCOPIC CHOLECYSTECTOMY

S. Singh

Anaesthesiology, Sanjay Gandhi Post Graduate Institute of Medical S, Lucknow, India

General Physical Posters

PR03-42, continued

S-201 COLLABORATIVE HEALTH OUTCOMES INFORMATION REGISTRY (CHOIR): OPEN SOURCE PLATFORM FOR LEARNING HEALTH SYSTEMS

M. Kao¹, K. Cook², G. Olson³, T. Pacht³, B. D. Damall¹, S. Weber³, S. Mackey¹, P. Flood¹

¹Anesthesiology, Stanford University School of Medicine, Palo Alto, California, ²Medical Social Sciences, Northwestern University, Chicago, Illinois, ³Stanford Center for Clinical Informatics, Stanford University, Palo Alto, California

S-204 PATIENTS RECEIVING PCA OPIOIDS WHO EXPERIENCE LOW MINUTE VENTILATION SPEND 70% LONGER IN THE PACU

¹Anesthesiology, Emory University Hospital, Atlanta, Georgia, ²Anesthesia, Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-205 INTRATHECAL MORPHINE REDUCES CIRCULATING ENDOCANNABINOID LEVELS IN COMPARISON TO PLACEBO IN PATIENTS UNDERGOING TOTAL KNEE ARTHROPLASTY

S. A. Azim¹, M. Kaczocha¹, J. Nicholson², M. J. Rebecchi¹, S. Rizwan¹, T. Feng³, H. Benveniste¹

¹Anesthesiology, Stony Brook University Hospital, Stony Brook, New York, ²Orthopaedics, Stony Brook University Hospital, Stony Brook, New York, ³Department of Applied Maths and Statistics, Stony Brook University, Stony Brook, New York

Perioperative Anesthesia 5

Abstracts in Poster Discussion Round: S-300 – S-306
10:30 am - 12:00 pm

PR03-43

Poster Moderator: C. Ing, MD, Columbia University, New York, New York

S-300 HUMAN FACTORS STUDY OF A PROTOTYPE PERIOPERATIVE HEMODYNAMIC DECISION SUPPORT SYSTEM

N. Ribeiro Marques¹, C. Meador², D. Inlow², B. Glasgow², M. Salter¹, M. Kinsky¹

¹Anesthesiology, The University of Texas Medical Branch, Galveston, Texas, ²Engineering, Arcos Medical, Houston, Texas

S-301 A PROSPECTIVE STUDY ON THE IMPLEMENTATION OF A PRE-OPERATIVE TEAM BRIEF AND ITS IMPACT ON PERIOPERATIVE CARE

D. Y. Lim, H. Xie, P. Wong

Department of Anaesthesiology, Singapore General Hospital, Singapore, Singapore

S-302 EFFECT OF GOAL-DIRECTED FLUID THERAPY USING STROKE VOLUME VARIATION IN FREE FLAP RECONSTRUCTION

S. Park, H. KIM, B. Koo

Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea

S-303 GABAPENTIN: DOES A SINGLE PREOPERATIVE DOSE PROLONG EXTUBATION OR PHASE 1 RECOVERY TIME?

M. Rhee¹, J. Magnuson¹, E. Podgaetz², M. Cohen¹, J. A. Wahr¹

¹Anesthesiology, University of Minnesota, Minneapolis, Minnesota, ²Thoracic Surgery, University of Minnesota, Minneapolis, Minnesota

S-304 PREVALENCE OF ANEMIA IN PRESURGICAL PATIENTS IN SINGAPORE

E. Sim¹, H. E. Wee¹, M. U. Mok¹, W. Ng², N. Ranjakunalan³, H. R. Abdullah¹

¹Anaesthesiology, Singapore General Hospital, Singapore, Singapore, ²Health Services Research and Biostatistics Unit, Singapore General Hospital, Singapore, Singapore, ³Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore

S-305 PATIENT BLOOD MANAGEMENT REDUCES CONSUMPTION OF PACKED RED BLOOD CELLS IN AN ACADEMIC TEACHING HOSPITAL

M. Ruebsam, C. W. Hoenemann

Anesthesiology, St. Marienhospital Vechta, Vechta, Germany

S-306 BLEEDING COMPLICATIONS IN POST-PCI PATIENTS UNDERGOING NON CARDIAC SURGERY. A PROSPECTIVE COHORT STUDY

M. Wasowicz¹, S. Syed², D. Wijeyesundera¹, L. Starzyk¹, S. Beattie³

¹Anesthesia and Pain Management, Toronto General Hospital, Toronto, Ontario, Canada, ²Anesthesia and Perioperative Medicine, McMaster University, Toronto, Ontario, Canada, ³Anesthesia and Pain Management, University of Toronto/Toronto General Hospital, Toronto, Ontario, Canada

General Physical Posters

Cardiovascular Anesthesiology 4
Abstracts in Poster Discussion Round: S-76 – S-83
1:00 pm - 2:30 pm

PR03-44

Poster Moderator: **D. Schwinn, MD**, University of Iowa, Iowa City, Iowa

S-76 COMPARISON OF FERUMOXYTOL (FERRAHEME) AND GADOLINIUM AS INTRAVENOUS CONTRAST AGENTS IN PEDIATRIC PATIENTS UNDERGOING CARDIAC MAGNETIC RESONANCE IMAGING (MRI) UNDER GENERAL ANESTHESIA

N. Velasquez¹, *M. Stein², C. Ramamoorthy³, S. Vasanawala⁴, L. W. Faberowski⁵*

¹Spectrum Child Health-Heart Center Research Program, Stanford University, Palo Alto, California, ²Anesthesiology, Perioperative and Pain medicine, Stanford University, Palo Alto, California, ³Anesthesiology, Perioperative and Pain Medicine (Pediatric), Stanford University, Stanford, California, ⁴Radiology (Pediatric Radiology), Stanford University, Palo Alto, California, ⁵Anesthesiology, Stanford University, Stanford, California

S-77 ACUTE KIDNEY INJURY DEFINED BY AKIN CRITERIA IS NOT SENSITIVE AFTER CARDIAC SURGERY

A. Mechling¹, L. D. Rosenberg², T. Lai¹, N. Yoh¹, G. Wagener¹

¹Anesthesiology, Columbia University, New York, New York, ²Anesthesiology, Columbia University New York Presbyterian Hospital, New York, New York

S-78 TYPE OF ANESTHESIA AND OUTCOMES AFTER TRANS-CATHETER AORTIC VALVE IMPLANTATION.

C. A. Luzzi¹, *D. Orlov¹, G. Djaiani¹, M. Meineri¹, E. Horlick², J. Carroll¹*

¹Anesthesia and Pain Management, Toronto General Hospital, Toronto, Ontario, Canada, ²Interventional Cardiology, Toronto General Hospital, Toronto, Ontario, Canada

S-79 OPTIMIZING CEREBRAL SATURATION IN CARDIAC SURGICAL PATIENTS

M. Trinh¹, *S. Uysal², G. Fischer¹, H. Lin³, D. Reich¹*

¹Anesthesiology, Mount Sinai, New York, New York, ²Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York, ³Biostatistics, Icahn School of Medicine, New York City, New York

S-80 CEREBRAL HYPEREMIA FOLLOWING CIRCULATORY ARREST IN HUMANS

W. J. Levy

Anesthesiology and Critical Care, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania

S-81 SEDATION PRACTICE FOR TRANSTHORACIC ECHOCARDIOGRAPHY IN CHILDREN AGED 2-4 YEARS

N. S. Hadaway, *J. Miller*

Anesthesiology, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio

S-82 AN AUTOMATED CRITICAL CARE SYSTEM FOR PRESSOR AND FLUID TREATMENT OF HEMORRHAGE AND TRAUMATIC BRAIN INJURY IN SWINE

J. Wolf, *N. Ribeiro Marques, P. Enkhbaatar, J. Salisbury, D. Prough, J. S. Funston, G. Kramer*

Anesthesiology, University of Texas Medical Branch, Galveston, Texas

S-83 A SYSTEMATIC REVIEW AND META-ANALYSIS OF INHALATION AGENTS FOR THE TREATMENT OF PULMONARY HYPERTENSION IN CARDIAC SURGICAL PATIENTS

M. Elmi-Sarabi¹, *A. Deschamps¹, S. Delisle², A. Denault¹*

¹Anesthesiology, Montreal Heart Institute, Montreal, Quebec, Canada, ²Intensive Care Unit, Hopital Sacré-Coeur de Montréal, Montreal, Quebec, Canada

Neuroscience in Anesthesiology & Perioperative Medicine 5
Abstracts in Poster Discussion Round:
S-175 – S-177, S-179 – S-181
1:00 pm - 2:30 pm

PR03-45

Poster Moderator: **M. Dworschak, MD, MBA**, Medical University of Vienna, Vienna, Austria

S-175 ACTIGRAPHY FOR DIAGNOSING AND PREDICTING HYPOACTIVE POSTOPERATIVE DELIRIUM

H. R. Maybrier, *A. M. Mickle, M. R. Murphy, R. T. Upadhyayula, T. Wildes, M. S. Avidan, B. A. Palanca*

Anesthesiology, Washington University School of Medicine, St. Louis, Missouri

General Physical Posters

PR03-45, continued

S-176 PLASMA NITRITE CHANGES DURING EC-IC BYPASS SURGERY IN MOYAMOYA PATIENTS

J. Silver¹, R. Jaffe², J. Lopez³

¹Research, Silver Medical, Inc., Palo Alto, California, ²Anesthesiology, Stanford University Hospital, Palo Alto, California, ³Neurology, Stanford University Hospital, Stanford, California

S-177 ACTIVATED BRAIN MAST CELLS CONTRIBUTE TO POSTOPERATIVE COGNITIVE DYSFUNCTION BY EVOKING MICROGLIA ACTIVATION AND NEURONAL APOPTOSIS

X. Zhang, H. Dong, Y. Qian

Anesthesiology, 1st Affiliated Hospital of Nanjing Medical University, Nanjing, China

S-179 CONSCIOUSNESS, CONNECTEDNESS AND INTRAOPERATIVE UNRESPONSIVENESS STUDY (CONSCIOUS): A PROSPECTIVE INTERNATIONAL MULTICENTER COHORT STUDY OF THE ISOLATED FOREARM TECHNIQUE FOLLOWING INTUBATION

R. D. Sanders¹, A. Raz¹, A. Absalom², G. Mashour³, V. Bonhomme⁴, M. Coburn⁵, J. W. Sleigh⁶

¹Anesthesiology, University of Wisconsin-Madison, Madison, Wisconsin, ²Anesthesiology, University Medical Center Groningen, Groningen, Netherlands, ³Anesthesiology, University of Michigan, Ann Arbor, Michigan, ⁴Anesthesiology, CHU Liege, Liege, Belgium, ⁵Anesthesiology, University of Aachen, Aachen, Germany, ⁶Anesthesiology, University of Auckland, Hamilton, New Zealand

S-180 CB2R ACTIVITY INHIBITION LINKED TO CIDS REVERSAL IN MICE

I. Burkovskiy¹, J. Zhou², H. Yang³, C. Lehmann²

¹Department of Pharmacology, Dalhousie University, Halifax, Nova Scotia, Canada, ²Department of Anesthesia, Pain Management & Perioperative Medicine, Dalhousie University, Halifax, Nova Scotia, Canada, ³Anesthesiology, Dalhousie University, Halifax, Nova Scotia, Canada

S-181 THE EFFECT OF REMIFENTANIL INFUSION ON SUCCESSFUL CORTICAL MAPPING DURING AWAKE CRANIOTOMY

M. Hammer¹, J. Kosky¹, L. B. Hemmer², J. F. Bebawy³, M. Tate⁴, D. K. Gupta⁵, A. Koht²

¹Anesthesiology, Northwestern Memorial Hospital, Chicago, Illinois, ²Anesthesiology, Northwestern University, Chicago, Illinois, ³Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois, ⁴Neurological Surgery, Northwestern University, Chicago, Illinois, ⁵Anesthesiology, Duke University Medical Center, Durham, North Carolina

Pain Medicine 3

Abstracts in Poster Discussion Round:

S-190, S-206 – S-208, S-212

1:00 pm - 2:30 pm

PR03-46

Poster Moderator: S. Lucas, MD, University of Florida, Gainesville, Florida

S-190 THE MECHANISM OF NICOTINE ANALGESIA AND THE EFFECTS OF NICOTINE-INDUCED HYPERALGESIA IN RATS AFTER PERIPHERAL NERVE INJURY

Y. Zhang¹, J. Yang², E. Sivanesan¹, Y. F. Rodriguez-Blanco¹, C. Su², K. Candiotti¹

¹Department of Anesthesiology, Perioperative Medicine and Pain Management, University of Miami, Miami, Florida, ²Department of Anesthesiology, Tumor Hospital Xiangya School of Medicine of Central South University, Changsha, China

S-206 OPIOID USE IN CHRONIC PAIN PATIENTS WITH CHRONIC KIDNEY DISEASE- A SYSTEMATIC REVIEW

V. Nagar¹, P. Birthi², S. Salles¹, P. Sloan³

¹Department of Physical Medicine and Rehabilitation, University of Kentucky, Lexington, Kentucky, ²Interventional Pain Management, Saint Francis Medical Center, Grand Island, Nebraska, ³Anesthesiology, University of Kentucky, Lexington, Kentucky

S-207 THE INFLUENCE OF PHANTOM LIMB PAIN ON FUNCTIONAL IMPROVEMENT IN LOWER LIMB AMPUTATION PATIENTS DURING ACUTE INPATIENT REHABILITATION

V. Nagar¹, L. Sawaki¹, S. Salles¹, C. R. James², J. Brismée², P. S. Sizer²

¹Department of Physical Medicine and Rehabilitation, University of Kentucky, Lexington, Kentucky, ²Department of Rehabilitation Sciences, Texas Tech University Health Sciences Center, Lubbock, Texas

S-208 RESULTS OF THE ZALVISO SUBLINGUAL SUFENTANIL TABLET SYSTEM VERIFICATION TESTING

B. N. Dasu¹, C. Domingo¹, D. A. Freed², A. S. Landas¹, K. DiDonato³, P. P. Palmer³

¹Engineering, AcclRx Pharmaceuticals, Redwood City, California, ²Quality Assurance, AcclRx Pharmaceuticals, Redwood City, California, ³Medical Affairs, AcclRx Pharmaceuticals, Redwood City, California

General Physical Posters

PR03-46, continued

S-212 APPLICATION OF TIME-DRIVEN ACTIVITY-BASED COSTING TO A PROPOSED PERIOPERATIVE PATHWAY FOR CHRONIC PAIN AND OPIOID TOLERANT PATIENTS

M. P. Zaccagnino, A. M. Bader, C. N. Sang, D. J. Correll

Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts

Perioperative Anesthesia 6
Abstracts in Poster Discussion Round: S-307 – S-313
1:00 pm - 2:30 pm

PR03-47

Poster Moderator: D. Pulley, MD, Washington University School of Medicine, St. Louis, Missouri

S-307 THE RELATIONSHIP BETWEEN THE PREOPERATIVE ALBUMIN LEVEL AND ACUTE KIDNEY INJURY IN PATIENTS UNDERGONE BRAIN TUMOR SURGERY

H. Ahn, S. An, J. Sim, J. Yi, K. Kim, J. Song

Anesthesiology and Pain Medicine, Asan Medical Center, Seoul, Republic of Korea

S-308 NEW ANESTHETIC AND SAMPLING PROTOCOL FOR TRANSBRONCHIAL LUNG CRYOBIOPSY

E. M. Camporesi¹, G. Kretz¹, D. DiNuoscio², P. H. Dalvi¹, M. Rumbak², D. Mangar¹

¹TeamHealth Anesthesia, TeamHealth Anesthesia, Tampa, Florida, ²Internal Medicine, Tampa General Hospital, Tampa, Florida

S-309 SEVERE POST-OPERATIVE PAIN FOLLOWING REMIFENTANIL ADMINISTRATION DURING ELECTIVE SPINE SURGERY A RETROSPECTIVE COHORT STUDY

N. J. Clendenen¹, M. Casimir², R. Searles², J. Ortoleva², K. Chung²

¹Anesthesiology, Yale University, New Haven, Connecticut, ²Anesthesiology, Yale-New Haven Hospital, New Haven, Connecticut

S-310 EFFECT OF DURATION OF ANESTHESIA ON POST-OPERATIVE MEMORY FORMATION

K. G. Palmer¹, M. Alaka¹, A. Feldner², A. Rubinstein², N. Kliestik², M. O'Connor², D. Glick²

¹Pritzker School of Medicine, University of Chicago, Chicago, Illinois, ²Department of Anesthesia and Critical Care, University of Chicago, Chicago, Illinois

S-311 DURATION OF ANESTHESIA AND PRE-OPERATIVE MEMORY FORMATION

K. G. Palmer¹, M. Alaka¹, A. Feldner², N. Kliestik², A. Rubinstein², M. O'Connor², D. Glick²

¹Pritzker School of Medicine, University of Chicago, Chicago, Illinois, ²Department of Anesthesia and Critical Care, University of Chicago, Chicago, Illinois

S-312 MASIMO® PLETHYSMOGRAPH VARIABILITY INDEX AS A TOOL FOR ASSESSMENT OF FLUID RESPONSIVENESS IN ELECTIVE MAJOR ABDOMINAL SURGERIES

A. M. Essam¹, M. Z. Ali¹, M. A. Maher¹, A. M. Mokhtar², H. H. El-Sabae¹, S. H. Omar¹, M. H. Hafiz²

¹Anesthesia and ICU, Theodor Bilharz Research Institute, Giza, Egypt, ²Anesthesia and ICU, Kasr El-Aini University Hospital, Cairo, Egypt

S-313 VISUAL FACIAL ANXIETY SCALE FOR ASSESSING PREOPERATIVE ACUTE (STATE) ANXIETY

X. Cao¹, R. Yumul², O. L. Elvir Lazo¹, J. Friedman¹, O. Durra¹, P. F. White²

¹Anesthesiology, Cedars Sinai Medical Center, Los Angeles, California, ²Anesthesiology, White Mountain Institute, Los Altos, California

Patient Safety 4
Abstracts in Poster Discussion Round: S-234 – S-240
2:45 pm - 4:15 pm

PR03-48

Poster Moderator: T. Krejcie, MD, Northwestern University, Chicago, Illinois

S-234 IMPACT OF SURGICAL SPECIAL CARE UNITS: A SYSTEMATIC REVIEW

N. Mendis¹, G. M. Hamilton¹, D. I. McIsaac², D. Fergusson³, H. Wunsch⁴, A. Turgeon⁵, M. M. Lalu⁶

¹Anesthesiology, University of Ottawa, Ottawa, Ontario, Canada, ²Anesthesiology, The Ottawa Hospital, University of Ottawa, Ottawa, Ontario, Canada, ³Medicine, Surgery, & Epidemiology and Community Medicine, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada, ⁴Anesthesia and Critical Care, Sunnybrook Health Sciences Centre, University of Toronto, Toronto, Ontario, Canada, ⁵Anesthesia and Critical Care, Université Laval, Quebec, Quebec, Canada, ⁶Anesthesiology, The Ottawa Hospital, University of Ottawa, The Ottawa Hospital Research Institute, Ottawa, Ontario, Canada

General Physical Posters

PR03-48, continued

S-235 REB CONSENT FORM TEMPLATE DISCLOSURE ELEMENTS: AGREEMENT AND COMPLIANCE WITH BIOETHICS STANDARDS

T. C. Denisuik, A. J. Villafranca, C. Hamlin, C. Christodoulou, E. Jacobsohn
Anesthesia and Perioperative Medicine, University of Manitoba, Winnipeg, Manitoba, Canada

S-236 DRUGS ERRORS BEFORE AND AFTER IMPLEMENTATION OF A BARCODE BASED ANESTHESIA DRUG SAFETY SYSTEM

A. Bowdle, S. Jelacic, B. Nair, K. Togashi
Anesthesiology, University of Washington, Seattle, Washington

S-237 COMPARISON OF REACTION TIME AMONG RESIDENT ANESTHESIOLOGISTS BEFORE AND AFTER ON CALL SHIFT

G. W. Williams¹, A. Sharma², A. Sereno³, A. Faruki², B. Shankar⁴, T. Burnett², C. A. Hagberg²

¹Anesthesiology and Neurosurgery, The University of Texas Health Science Center at Houston (UTHealth) McGovern Medical School, Houston, Texas, ²Anesthesiology, The University of Texas Health Science Center at Houston (UTHealth) McGovern Medical School, Houston, Texas, ³Neurobiology and Anatomy, The University of Texas Health Science Center at Houston (UTHealth) McGovern Medical School, Houston, Texas, ⁴Neurobiology and Anatomy, Rice University, Houston, Texas

S-238 CAUSES, MANIFESTATIONS, AND FREQUENCY OF SEVERE ALLERGIC REACTIONS DURING THE PERIOPERATIVE PERIOD

B. Nguyen, G. Cuff, R. Sommer
Anesthesiology, Perioperative Care and Pain Medicine, New York University School of Medicine, New York, New York

S-239 THE IMPACT OF DAILY TRACKING AND FEEDBACK ON INTRAOPERATIVE NEUROMUSCULAR BLOCKADE MONITORING AND RESIDUAL PARALYSIS

M. M. Todd¹, B. Hindman¹, D. E. DeMik², D. Elhag³
¹Anesthesia, University of Iowa, Iowa City, Iowa, ²College of Medicine, University of Iowa Carver College of Medicine, Iowa City, Iowa, ³College of Medicine, University of Iowa Medical School, Iowa City, Iowa

S-240 INTEGRATED PULMONARY INDEX CAN PREDICT RESPIRATORY COMPROMISE IN HIGH-RISK PATIENTS AT POST-ANESTHESIA CARE UNIT

Y. Kuroe¹, S. Okahara¹, K. Ishii², T. Kanazawa¹, N. Shioji¹, H. Morimatsu¹
¹Department of Anesthesiology and Resuscitology, Okayama University Hospital, Okayama, Japan, ²Department of Anesthesiology and Oncological Pain, Fukuyama City Hospital, Fukuyama-shi, Japan

Pediatric Anesthesiology 4

Abstracts in Poster Discussion Round: S-264 – S-266, S-268
2:45 pm - 4:15 pm

PR03-49

Poster Moderator: S. Verghese, MD, Children's National Medical Center, Washington, DC

S-264 SURGERY FOR LIVING DONOR PEDIATRIC LIVER TRANSPLANTATION- INDIA VS. USA: A SNAPSHOT PERIOPERATIVE CARE COMPARISON AT TWO CENTERS

S. Johng¹, A. D'Cruz², R. Foreman¹, S. Chinnakotla³, S. Rao², C. Murugesan⁴, K. G. Belani⁵

¹Medical School, University of Minnesota, Minneapolis, Minnesota, ²Pediatric Surgery, Narayana Health, Bangalore, India, ³Surgery, University of Minnesota, Minneapolis, Minnesota, ⁴Anesthesia and Critical Care, Narayana Health, Bangalore, India, ⁵Anesthesiology, University of Minnesota, Minneapolis, Minnesota

S-265 PREDICTION OF FLUID RESPONSIVENESS USING AN ABDOMINAL COMPRESSION-INDUCED BLOOD PRESSURE CHANGE IN CHILDREN UNDERGOING MAJOR SURGERY

J. Lee, I. Song, J. Kim
Department of Anesthesiology and Pain Medicine, Seoul National University Hospital, Seoul, Republic of Korea

General Physical Posters

PR03-49, continued

S-266 THE TIMING AND CHARACTERIZATION OF POST-ANESTHETIC COMPLICATIONS IN PEDIATRIC PATIENTS WITH PULMONARY HYPERTENSION UNDERGOING GENERAL ANESTHESIA- A RETROSPECTIVE STUDY

D. F. Chau¹, A. Key², A. Perkins³, M. Gangadharan⁴, L. Hartke⁵, M. Twite⁶

¹Anesthesiology, Children's Hospital of The King's Daughters, Norfolk, Virginia, ²Biology, Old Dominion University/ CHKD, Norfolk, Virginia, ³Department of Pediatrics, Division of Biostatistics and Innovation in Research Design, Children's Hospital of the King's Daughters/ Eastern Virginia Medical School, Nashville, Tennessee, ⁴Anesthesiology, Driscoll Children's Hospital, Corpus Christi, Texas, ⁵Cardiology, Children's Hospital of The King's Daughters, Norfolk, Virginia, ⁶Anesthesiology, Children's Hospital Colorado & University of Colorado, Aurora, Colorado

S-268 REDUCTION IN CRYOPRECIPITATE WASTE IN THE PEDIATRIC CARDIOVASCULAR OPERATING ROOM: A GOAL-DIRECTED TRANSFUSION ALGORITHM BASED ON ROTATIONAL THROMBOELASTOMETRY

E. Gottlieb¹, J. Nicholson², M. James³, D. Gleason⁴, S. Sommers²

¹Pediatric Cardiovascular Anesthesiology, Baylor College of Medicine, Houston, Texas, ²Pediatric Anesthesiology, Texas Children's Hospital, Houston, Texas, ³Pediatric Anesthesiology, Baylor College of Medicine, Houston, Texas, ⁴Legal, Texas Children's Hospital, Houston, Texas

**Technology, Computing & Simulation, Equipment Monitoring 3
Abstracts in Poster Discussion Round: S-352, S-354 – S-358
2:45 pm - 4:15 pm**

PR03-50

Poster Moderator: J. Gross, MD, University of Connecticut Program, Farmington, Connecticut

S-352 OBJECTIVE MEASUREMENT OF PAIN PERCEPTION IN VOLUNTEERS AND ANESTHETIZED PATIENTS

A. Eisenried¹, A. Akhbardeh², D. C. Yeomans³, A. Z. Tzabazis⁴

¹Anästhesiologie, Klinik für Anästhesiologie, Erlangen, Germany, ²Johns Hopkins University, Baltimore, Maryland, ³Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California, ⁴Anesthesiology, Perioperative and Pain Medicine, Stanford University, Stanford, California

S-354 BATTERY DURATION OF A TRANSPORT VENTILATOR WITH OXYGEN CONCENTRATOR

D. F. Szpisjak¹, J. O'Neil², N. Lahvic²

¹Anesthesiology, Uniformed Services University, Bethesda, Maryland, ²F. Edward Hebert School of Medicine, Uniformed Services University, Bethesda, Maryland

S-355 EVALUATION OF NONINVASIVE CARDIAC OUTPUT MONITORING IN SHEEP WITH HEMODYNAMIC INSTABILITY

P. A. Middleton, P. S. Reynolds, B. D. Spiess, J. Zhu

Anesthesiology, Virginia Commonwealth University, Richmond, Virginia

S-356 DEFINITION OF NORMAL VORTEX AND ENERGY LOSS REFERENCE VALUE IN LEFT VENTRICLE USING VECTOR FLOW MAPPING

K. Akiyama, S. Maeda, Y. Naito, H. Kato, M. Kinoshita, M. Shimizu, T. Sawa

Anesthesiology, Kyoto Prefectural University of Medicine, Kyoto City, Japan,

S-357 TRANSPORT VENTILATOR BATTERY DURATION IN A MECHANICAL LUNG MODEL OF ARDS

J. Stockton¹, D. F. Szpisjak²

¹F. Edward Hebert School of Medicine, Uniformed Services University, Bethesda, Maryland, ²Anesthesiology, Uniformed Services University, Bethesda, Maryland

S-358 COMPARATIVE ANALYSIS OF MEDICAL USE AND SPORTS AND AVIATION USE PULSE OXIMETERS REVEALS NO MEANINGFUL DIFFERENCE

A. J. Hudson¹, J. Benjamin², T. Jardeleza², C. Bergstrom³, W. A. Cronin², M. Mendoza⁴, L. Schultheis⁵

¹Anesthesiology, Uniformed Services University of the Health Sciences, Bethesda, Maryland, ²Anesthesiology, Walter Reed National Military Medical Center, Bethesda, Maryland, ³Anesthesiology, University of Maryland School of Medicine, Baltimore, Maryland, ⁴Center for Devices and Radiological Health, Anesthesia Devices Branch, U.S. Food and Drug Administration, Silver Spring, Maryland, ⁵Bioengineering, University of Maryland, College Park, Maryland

Medically Challenging Cases ePosters

Medically Challenging Cases 22
Abstracts in Poster Discussion Rounds: MC-136 – MC-140
8:00 am - 9:30 am Monitor 1

MCC03-22

Poster Moderator: J. White, MD, University of Florida, Gainesville, Florida

MC-136 CERVICAL EPIDURAL CATHETER FOR TREATMENT OF ACUTE PAIN IN PATIENT WITH OBESITY, OSA, CHRONIC PAIN, AND MULTIPLE HIGH THORACIC RIB FRACTURES

T. J. Barnes¹, J. J. Gonzalez²

¹Anesthesia, Cleveland Clinic Foundation, Cleveland, Ohio, ²Anesthesiology, Cleveland Clinic, Cleveland, Ohio

MC-137 OUTCOMES AND UNANTICIPATED FINDINGS AFTER PERFORMING A NOVEL CONTINUOUS PERIPHERAL NERVE BLOCK FOR STERNAL FRACTURE IN AN ACUTE TRAUMA PATIENT

J. Jones

Anesthesiology, University of Tennessee Health Science Center, Memphis, Tennessee

MC-138 ANAPHYLAXIS DURING GENERAL ANESTHESIA CAUSED BY EPIDURALLY ADMINISTERED ROPIVACAINE

S. Fujioka, K. Takechi, N. Sakashita, A. Konishi, K. Kuzume, T. Yorozuya

Department of Anesthesia and Perioperative Medicine, Ehime University Graduate School of Medicine, Toon City, Ehime, Japan

MC-139 REGIONAL ANESTHESIA IN ACQUIRED HEMOPHILIA A (FACTOR VIII INHIBITOR POSITIVE)

M. T. Chu, H. Li

Anesthesiology, University of Texas Medical Branch, Galveston, Texas

MC-140 OPEN DISTAL TIBIA AND FIBIA FRACTURE REPAIR IN A PATIENT WITH UNCONTROLLED PHEOCHROMOCYTOMA

R. Desai

Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

Medically Challenging Cases 23
Abstracts in Poster Discussion Rounds:
MC-141 – MC-143, MC-145 – MC-146
8:00 am - 9:30 am Monitor 2

MCC03-23

Poster Moderator: M. Ozaki, MD, PhD, Tokyo Women's Medical University, Tokyo, Japan

MC-141 HYPERTRIGLYCERIDEMIA SECONDARY TO PROPOFOL INFUSION COMPLICATING RENAL REPLACEMENT THERAPY ON A PATIENT WITH HEMORRHAGIC SHOCK

R. J. Diaz Galdo¹, M. Gaber², R. Diaz Milian¹

¹Anesthesiology, Medical College of Georgia, Augusta, Georgia, ²Anesthesiology, Medical College of Georgia at Georgia Reagent University, Augusta, Georgia

MC-142 DONOR RELATED CRYPTOCOCCAL DISEASE IN HEART TRANSPLANT RECIPIENT

K. Watford

Anesthesiology, University of Miami/Jackson Health Systems, Miami, Florida

MC-143 INTRAVASCULAR LYMPHOMA A DIFFICULT DIAGNOSIS IN THE ICU

U. Shastri, D. Miller

Anesthesia, University of Alabama Birmingham, Birmingham, Alabama

MC-145 AUTOIMMUNE ENCEPHALITIS: A RARE CAUSE OF ALTERED MENTAL STATUS

C. Twyner¹, B. T. Wanta²

¹Anesthesiology, Mayo Clinic, Rochester, Minnesota, ²Anesthesiology, Mayo Clinic, Rochester, Minnesota

MC-146 DYSFUNCTION OF THE DIAPHRAGM AFTER IATROGENIC TENSION PNEUMOPERITONEUM BY A GASTROINTESTINAL ENDOSCOPIC PROCEDURE

K. Hazama¹, H. Nakatsuka², Y. Toda²

¹Department of Anesthesiology & Intensive Care Medicine, Kawasaki Medical School, Kurashiki, Japan, ²Anesthesiology and Intensive Care Medicine, Kawasaki Medical School, Kurashiki-shi, Japan

Medically Challenging Cases ePosters

Medically Challenging Cases 24
Abstracts in Poster Discussion Rounds:
MC-147 – MC-148, MC-150 – MC-152
10:30 am - 12:00 pm Monitor 3

MCC03-24

Poster Moderator: **V. Singh, MD, FRCA, MRCP**, University of Alabama at Birmingham Hospital, Birmingham, Alabama

MC-147 SUCCINYLCHOLINE SHOULD NOT BE USED IN SOMEONE WITH HISTORY OF GASTRIC BYPASS

J. Seavello

Anesthesia, Mercy Medical Center, Mill Creek, Washington

MC-148 MANAGING DIFFICULT AIRWAY FOR EMERGENCY LIVER TRANSPLANT, MORE THAN ONE CHALLENGE TO MANAGE

H. Sadkhan¹, A. Dhir¹, K. Kishore¹, D. Quan²

¹Anesthesia and Perioperative Medicine, LHSC, University Hospital, London, Ontario, Canada, ²Hepato-biliary Surgery, LHSC, University Hospital, London, Ontario, Canada

MC-150 CONUNDRUMS IN AIRWAY MANAGEMENT: LUNG ISOLATION WITH AN UNDIAGNOSED VALLECULAR CYST

M. Chyfetz

Department of Anesthesiology, New York Methodist Hospital, Brooklyn, New York

MC-151 EXCHANGE OF A KING AIRWAY UNDER FIBEROPTIC DIRECT VISUALIZATION USING AN Aintree CATHETER

G. Konig, E. Abuelkasem, S. T. Beaman, A. T. Silipo

Anesthesiology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

MC-152 A NOVEL NASAL PAP MASK ASSEMBLY PROVIDED CONTINUOUS OXYGENATION DURING GA INDUCTION AND INTUBATION IN AN OBESE PATIENT WITH METASTATIC LUNG CANCER AND A LARGE MOON FACE UNDERGOING BRONCHOSCOPY

J. Tse, B. R. Landgraf, A. Zarchin, V. Rodriguez, N. Grayer

Anesthesiology, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

Medically Challenging Cases 25
Abstracts in Poster Discussion Rounds: MC-153 – MC-158
10:30 am - 12:00 pm Monitor 1

MCC03-25

Poster Moderator: **S. Chaudhuri, MD, PhD**, Texas Tech University Health Sciences Center, Lubbock, Texas

MC-153 POSTOPERATIVE CONVERSION DISORDER PRESENTING AS STRIDOR AND HEMIPARESIS IN A PEDIATRIC PATIENT

J. Y. Wu, E. Nelson

Anesthesiology, University of Colorado, Aurora, Colorado

MC-154 SODIUM GLUCOCOSE LIKE 2 INHIBITORS AND POST OPERATIVE EUGLYCEMIC DIABETIC KETOACIDOSIS

K. L. Hurley¹, S. Noel², M. Ioffe¹, R. Vaskul¹

¹Anesthesia, St. Barnabas Medical Center, Livingston, New Jersey, ²Anesthesiology, Saint Barnabas Medical Center, West Orange, New Jersey

MC-155 VENTILATORY COLLAPSE: A CASE OF ENDOTRACHEAL TUBE STRANGULATION FROM A NASOGASTRIC TUBE KNOT

I. M. Cohen¹, B. Ashrafi², K. Candiotti³, Y. F. Rodriguez-Blanco⁴

¹Anesthesiology, Jackson Memorial Hospital, Miami, Florida, ²Anesthesiology, University of Miami Miller School of Medicine, Miami, Florida, ³Department of Anesthesiology, Perioperative Medici, University of Miami, Miami, Florida, ⁴CVT Anesthesiology, University of Miami Miller School of Medicine, Miami, Florida

MC-156 CAROTID BODY PARANGLIOMA AND ANESTHETIC MANAGEMENT

A. J. Lawson¹, T. P. Schrank², J. R. McSwain¹

¹Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina, ²Otolaryngology Head and Neck Surgery, Medical University of South Carolina, Charleston, South Carolina

MC-157 ANESTHETIC MANAGEMENT FOR A PATIENT WITH UNDERLYING HYPERCOAGULABILITY UNDERGOING RESECTION OF RENAL CELL CARCINOMA WITH SUPRADIAPHRAGMATIC TUMOR THROMBUS EXTENSION

K. Anubhav¹, A. Lackamp²

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Moderated Poster Discussion Sessions ■ Monday, May 23

Medically Challenging Cases ePosters

MCC03-25, continued

MC-158 ANTI PSYCHOTIC MEDICATIONS AND REFRACTORY HYPOTENSION DURING ANESTHESIA-CAN BIS MONITOR HELP?

R. Govindarajan¹, C. Foster², D. A. Livingstone³, A. J. Hendrzak⁴, N. Parikh⁵, M. John⁶, J. Spaliaras¹

¹Anesthesiology, Bronx Lebanon Hospital, Bronx, New York,

²Anesthesiology, North American Partners in Anesthesia, Melville, New York, ³Anesthesiology, Bronx Lebanon Hospital Medical Center, Bronx, New York, ⁴Surgery, Bronx Lebanon Hospital Center, Bronx, New York, ⁵Surgery, Bronx Lebanon Hospital Center, New York, New York, ⁶Surgery, Bronx-Lebanon Hospital Center, New York, New York

MC-162 ANAESTHETIC IMPLICATIONS IN TRANS-ORAL HEMITHYROIDECTOMY

S. Singh

Anesthesiology, Sanjay Gandhi Post Graduate Institute of Medical Science, Lucknow, India

MC-163 INADVERTENT PUNCTURE OF THE SUBCLAVIAN ARTERY DURING ULTRASOUND-GUIDED CENTRAL LINE PLACEMENT IN THE INTERNAL JUGULAR VEIN

J. L. Wu, M. Huh, D. Hsu, C. Lee

Anesthesiology, Harbor-UCLA, Torrance, California

MC-164 SEVERE POSTOPERATIVE DELIRIUM – THE EPIDEMIC OF HEROIN IS UPON US!

C. Scher¹, A. C. Ruskin²

¹Anesthesiology, New York University School of Medicine, New York, New York, ²Anesthesiology, University of Chicago School of Medicine, Chicago, Illinois

Medically Challenging Cases 26

Abstracts in Poster Discussion Rounds: MC-159 – MC-164

1:00 pm - 2:30 pm Monitor 2

MCC03-26

Poster Moderator: I. Gasanova, MD, PhD, University of Texas Southwestern Medical Center, Dallas, Texas

MC-159 ANESTHESIA FOR EMERGENCY SURGERY WITH CO-EXISTING BILATERAL PULMONARY EMBOLISM

R. Govindarajan¹, C. Foster², D. A. Livingstone³, M. Pasamba¹, M. Guglielmi⁴, D. Morel⁵

¹Anesthesiology, Bronx Lebanon Hospital, Bronx, New York,

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MC-160 PERIOPERATIVE MANAGEMENT OF A PATIENT WITH THE RARE BOMBAY BLOOD GROUP

J. Finkel

Department of Anesthesiology and Perioperative Medicine, University of Massachusetts Medical School, Worcester, Massachusetts

MC-161 WELL LEG COMPARTMENT SYNDROME: A MEDICALLY CHALLENGING CASE

J. Hackett¹, J. Aronsohn², A. Gorgy²

¹Anesthesiology, Hofstra North Shore-LIJ, Manhasset, New York,

²Department of Anesthesiology, NS-LIJ Health System, New Hyde Park, New York

Medically Challenging Cases 27

Abstracts in Poster Discussion Rounds: MC-165 – MC-171

1:00 pm - 2:30 pm Monitor 3

MCC03-27

Poster Moderator: S. Pai, MD, Mayo Clinic Florida, Jacksonville, Florida

MC-165 NEURAXIAL ANESTHETIC MANAGEMENT IN A PREGNANT PATIENT WITH REPAIRED TETHERED CORD SYNDROME

K. Price, T. J. Vernon, P. Shapiro, T. Vogel

Anesthesiology, Allegheny Health Network, Pittsburgh, Pennsylvania

MC-166 MOTHER OR MONITOR: WHO SHOULD BE TRUSTED?

P. de Luna, M. Betz, H. S. Chang, T. Tran

Anesthesiology and Critical Care Medicine, Johns Hopkins University, Baltimore, Maryland

MC-167 AN UNUSUAL CASE OF POST PARTUM HEMORRHAGE

D. S. Batt, N. Balogh

Anesthesiology, NYP-Weill Cornell, New York, New York

Medically Challenging Cases ePosters

MCC03-27, continued

MC-168 USE OF MATERNAL EARLY WARNING CRITERIA AND OBSTETRIC SHOCK INDEX FOR TIMELY RECOGNITION OF MASSIVE OBSTETRICAL HEMORRHAGE

A. Shah, J. Galvan

Anesthesiology, University of Illinois, Chicago, Illinois

MC-169 ACCIDENTAL BILATERAL SCIATIC NERVE BLOCK AFTER GYNECOLOGICAL PROCEDURE

A. Gilvanoff

The Ambulatory Surgery Department, Hvidovre University Hospital, Copenhagen, Denmark

MC-170 CESAREAN SECTION IN A PATIENT WITH ARRHYTHMOGENIC RIGHT VENTRICULAR CARDIOMYOPATHY DONE UNDER COMBINED SPINAL EPIDURAL

K. A. Thibert, I. Apostolidou, L. A. Renfro

Anesthesiology, University of Minnesota Medical School, Minneapolis, Minnesota

MC-171 A PATIENT WITH BRUGADA SYNDROME UNDERGOING CESAREAN SECTION

K. M. McGrath¹, N. Connelly², L. Chua³, F. J. Herrera⁴, E. Ruvolo¹

¹Anesthesia Residency, Baystate Medical Center, Springfield, Massachusetts, ²Anesthesiology, Baystate Medical Center, Suffield, Connecticut, ³Anesthesiology, Baystate Medical Center, Springfield, Massachusetts, ⁴Anesthesia Residency, Baystate Health Anesthesiology, Springfield, Massachusetts

MC-174 ADDITION OF DEXMEDETOMIDINE LEADS TO INCREASE IN DENSITY AND LENGTH OF PERIPHERAL NERVE BLOCK IN A PATIENT WITH SUSPECTED GENETIC MALFORMATION LEADING TO DECREASED SENSITIVITY TO AMIDE LOCAL ANESTHETICS

J. Jones, L. Cooper, C. D. Sharp

Anesthesiology, University of Tennessee Health Science Center – Memphis, Tennessee

MC-175 INCOMPLETE SPINAL ANESTHESIA ADMINISTERED AFTER DURAL PUNCTURE BY THE INTRODUCER NEEDLE

W. Chee, A. Nam

Department of Anesthesiology, Montefiore Medical Center & Albert Einstein College of Medicine, Bronx, New York

MC-176 SUCCESSFUL POPLITEAL-SCIATIC BLOCK IN A GIRL WITH EHLERS-DANLOS SYNDROME, HYPERMOBILITY-TYPE

D. Waisel, W. Alrayashi, K. Boretsky

Department of Anesthesiology, Perioperative and Pain Medicine, Boston Children's Hospital, Boston, Massachusetts

MC-177 ANESTHETIC CONSIDERATIONS FOR A PATIENT WITH IDIOPATHIC DAYTIME HYPERSOMNOLENCE UNDERGOING GENERAL ANESTHESIA

S. Aflaki¹, S. Hu², R. A. Kamel³, F. Chung³, M. Singh³

¹Anesthesia, University of Toronto, Toronto, Ontario, Canada, ²Faculty of Medicine, University of Toronto, Toronto, Ontario, Canada, ³Anesthesia, Toronto Western Hospital, University Health Network – University of Toronto, Toronto, Ontario, Canada

MC-178 HYPERLEUKOCYTOSIS CAUSES FALSELY ELEVATED POINT-OF-CARE HEMOGLOBIN & HEMATOCRIT MEASUREMENTS

J. Menshenina¹, J. Sobol²

¹Anesthesiology, New York Presbyterian Hospital, Columbia University Medical Center, New York, New York, ²Department of Anesthesiology, Columbia University, New York, New York

Medically Challenging Cases 28

Abstracts in Poster Discussion Rounds: MC-173 – MC-178

1:00 pm - 2:30 pm Monitor 1

MCC03-28

Poster Moderator: J. G. Charchafieh, MD, Yale University, New Haven, Connecticut

MC-173 ONSET OF PARALYSIS 48 HOURS AFTER FAILED SPINAL ANESTHESIA!

M. Rhee, R. Prielipp

Anesthesiology, University of Minnesota, Minneapolis, Minnesota

Scholars' ePosters

Obstetric Anesthesiology 1 & Pain Mechanisms 1
Abstracts in Poster Discussion Round: S-438 – S-441
1:00 pm - 2:30 pm Monitor 4

SCH03-10

Poster Moderator: M. Hollmann, MD, PhD, DEAA, Academic Medical Center Amsterdam, Amsterdam, Netherlands

S-438 COMPARISON OF ANTIEMETIC AND OPIOID USE IN PATIENTS UNDERGOING CESAREAN SECTION WITH SPINAL ANESTHESIA CONTAINING FENTANYL VERSUS MEPERIDINE

A. Yap¹, *B. R. Monroe², W. C. Paganelli¹, R. W. Yamell¹*

¹Anesthesiology, University of Vermont Medical Center, Burlington, Vermont,

²Anesthesiology, Geisinger, Danville, Pennsylvania

S-439 DIFFERENTIAL INHIBITION OF SENSORY NEURONS AND ACTIVATION OF SYMPATHETIC OUTFLOW FROM THE DORSAL PERIAQUEDUCTAL GRAY OF ANESTHETIZED RATS

C. J. Roberts¹, *F. A. Hopp², Q. H. Hogan², C. Dean²*

¹Department of Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin, ²Department of Anesthesiology, Medical College of Wisconsin and Zablocki VA Medical Center, Milwaukee, Wisconsin

S-440 VALIDATION OF INSULA CONNECTIVITY CHANGES DURING PAIN

C. J. Becker, K. M. Vogt, J. W. Ibinson

Department of Anesthesiology, University of Pittsburgh, Pittsburgh, Pennsylvania

S-441 CHARACTERIZATION OF NEURONS INVOLVED IN DESCENDING PAIN CONTROL REVEALS DELTA AND MU OPIOID RECEPTOR EXPRESSION IN MICE

S. A. Low¹, *G. Scherrer²*

¹Anesthesia, Stanford University, Palo Alto, California, ²Department of Anesthesiology, Perioperative and Pa, Stanford University, Palo Alto, California

Pediatric Anesthesiology 1
Abstracts in Poster Discussion Round: S-452 – S-454
1:00 pm - 2:30 pm Monitor 5

SCH03-11

Poster Moderator: Y. Gozal, MD, Shaare Zedek Medical Center, Jerusalem, Israel

S-452 FREQUENCY AND PREDICTORS OF PERIOPERATIVE PULMONARY ASPIRATION IN CHILDREN

L. Eisler¹, *L. Sun², J. A. Busse¹, A. Lin¹, M. Sun³, C. Ing¹*

¹Anesthesiology, Columbia University, New York, New York, ²Anesthesiology and Pediatrics, Columbia University, New York, New York, ³Biostatistics, Columbia University, New York, New York

S-453 INCREASED USE OF INHALED NITRIC OXIDE IN SINGLE VENTRICLE PATIENTS WITH LOW NASAL NITRIC OXIDE UNDERGOING CONGENITAL HEART SURGERY

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¹Anesthesiology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, ²Developmental Biology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania

S-454 PEDIATRIC EXTERNAL BEAM RADIATION THERAPY TREATMENT INTERRUPTIONS ASSOCIATED WITH CHANGE IN AIRWAY MANAGEMENT IN PEDIATRIC RADIATION ONCOLOGY – A 3-YEAR RETROSPECTIVE COHORT STUDY

P. Chua¹, *C. Hill-Kayser², L. M. Ahumada³, A. F. Simpao⁴, A. Jawad⁵, M. A. Rehman⁴, J. A. Galvez⁶*

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Scholars' ePosters

Airway Management 1 & Patient Safety 1
Abstracts in Poster Discussion Round:
S-400, S-446 – S-448, S-450 – S-451
1:00 pm - 2:30 pm Monitor 6

SCH03-12

Poster Moderator: A. Abramowicz, MD, Albert Einstein College of Medicine Montefiore Medical Center, Bronx, New York

S-400 INDEPENDENT RISK FACTORS FOR POSTOPERATIVE PULMONARY COMPLICATIONS IN A RURAL TERTIARY ACADEMIC MEDICAL CENTER

S. Belenkiy, *D. Sizemore, M. Mueller, O. M. Elzamazy, A. Attaallah, M. C. Vallejo*

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S-446 SIGNIFICANT REDUCTION IN PREOPERATIVE TESTING AT A PREOPERATIVE EVALUATION CLINIC IS NOT ASSOCIATED WITH INCREASE IN DAY OF SURGERY TESTING OR CASE CANCELLATIONS

H. Shi¹, *M. Terekhov*¹, *J. M. Ehrenfeld*², *J. P. Wanderer*³

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S-447 COMPARISON OF THE EASE OF NASOGASTRIC TUBE INSERTION IN STANDARD SNIFFING POSITION AND IN ADDITIONAL FLEXION OF THE NECK

N. Jonnavithula, *P. Durga*

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S-448 GI ENDOSCOPY INSUFFLATING GAS PRESSURE: HOW REGULATED IS THE REGULATOR?

A. Bursian¹, *N. Gravenstein*¹, *P. V. Draganov*², *J. D. White*¹

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S-450 PSYCHOMETRIC VALIDATION OF THE NURSING CONFIDENCE IN MANAGING SEDATION COMPLICATIONS SCALE

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S-451 HANDOFF STANDARDIZATION IN TWO MIXED SURGICAL INTENSIVE CARE UNITS IMPROVES TEAMWORK AND INFORMATION EXCHANGE: PRELIMINARY FINDINGS FROM THE HANDOFFS AND TRANSITIONS IN CRITICAL CARE (HATRICC) STUDY

M. B. Lane-Fall¹, *J. Pascual*², *J. Gutsche*¹, *L. J. Di Taranti*¹, *S. Buddai*¹, *F. Barg*³, *L. Fleisher*¹

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Critical Care 2 & Trauma 1
Abstracts in Poster Discussion Round: S-423 – S-425, S-474
2:45 pm - 4:15 pm Monitor 4

SCH03-13

Poster Moderator: J. Berman, MD, University of North Carolina, Chapel Hill, North Carolina

S-423 MONDAY MORNING: ICU PHYSICIANS' PERSPECTIVES ON HOW ATTENDING HANDOFFS IMPACT PATIENT FAMILIES

D. C. Mosquera¹, *L. J. Di Taranti*², *M. B. Lane-Fall*³

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Scholars' ePosters

SCH03-13, continued

S-424 SURVEYING ICU NURSES REGARDING PERSPECTIVES ON PATIENT COMMUNICATION

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S-425 ANALYSIS OF ADMISSION/DISCHARGE CRITERIA ADHERENCE AMONG CLOSED AND OPEN ICU'S ON WEEKEND VS WEEKDAYS

L. Sittner¹, J. Walker², S. Toy¹, H. Nguyen¹, D. Hollenbeck³

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S-474 EFFECTIVENESS AND EFFICIENCY OF HEMORRHAGIC HYPOVOLEMIA FLUID RESUSCITATION BETWEEN STANDARD OF CARE PRACTICE AND AUTOMATED STRATEGIES

N. Ribeiro Marques¹, J. Wolf¹, R. Voigt², M. Salter³, G. Kramer³, M. Kinsky⁴

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Neuroscience in Anesthesiology & Perioperative Medicine 1
Abstracts in Poster Discussion Round: S-432 – S-437
2:45 pm - 4:15 pm Monitor 5

SCH03-14

Poster Moderator: M. Brzezinski, MD, PhD, University of California San Francisco, San Francisco, California

S-432 TOWARDS NEUROPHYSIOLOGICAL BIOMARKERS OF BRAIN VULNERABILITY: FRONTAL ALPHA WAVES PREDICT THE PROPENSITY FOR INTRAOPERATIVE BURST SUPPRESSION

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¹Harvard-MIT Division of Health Sciences and Technology, Harvard Medical School, Boston, Massachusetts, ²Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-433 A NOVEL TREATMENT FOR MEMORY IMPAIRMENT AFTER CONCUSSION IN MICE

S. Avramescu¹, H. Sheng², D. Wang³, B. A. Orser⁴

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S-434 ACUTE EXPERIMENTAL PAIN AFFECTS LONG-TERM MEMORY OF AUDITORY CUES PRESENTED DURING SEDATION WITH DEXMEDETOMIDINE AND MIDAZOLAM

K. M. Vogt¹, J. W. Ibinson¹, J. Tremel², L. M. Reder³, J. A. Fiez²

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S-435 INTRAVENOUS IMMUNOGLOBULIN ADMINISTRATION IS ASSOCIATED WITH REDUCED DELIRIUM RATE AND DECREASED DELIRIUM DURATION IN LUNG TRANSPLANT RECIPIENTS- A SINGLE CENTER RETROSPECTIVE STUDY

M. Berger¹, P. J. Smith², F. Sbahi³, J. Thomas³, L. Snyder⁴, J. Blumenthal²

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S-436 THE INCIDENCE OF AIRWAY COMPLICATIONS FOLLOWING POSTERIOR OCCIPITOCERVICAL SPINE FUSION

V. Sheshadri, R. Moga, P. Manninen, L. Venkatraghavan

Anesthesiology, Toronto Western Hospital, University of Toronto, Toronto, Ontario, Canada

S-437 NOVEL WIRELESS DEVICES TO DRIVE OPTOGENETIC ACTIVATION OF THE LOCUS COERULEUS AND EVOKE AROUSAL AND ACTIVITY IN MICE

A. J. Norris¹, L. Xia¹, S. Park², G. Shin², J. A. Rogers², M. Bruchas¹

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