Funding anesthesia research to ensure pediatric safety

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/smarttots

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

smarttots.org
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,

Edwin M. Lee
Mayor
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. Rehnborg 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
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. TM
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).
IARS 2016 Annual Meeting Program Committee

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Birmingham, Alabama

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

Location

IARS 2016 Annual Meeting Headquarters Hotel

Hilton San Francisco Union Square Hotel
333 O’Farrell Street
San Francisco, California 94102
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.
General Information

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 – 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.

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.

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.

Special Services
If you have a special need, please see IARS staff at the Registration Desk.
## Restaurants at the Hilton San Francisco Union Square

### 398 Brasserie
- **Breakfast & Brunch, Brasseries**
- **Address**: 398 Geary St.
- **Phone**: 415-212-8196
- **Website**: [www.398restaurantsf.com](http://www.398restaurantsf.com)

### Colibrí Mexican Bistro
- **Mexican**
- **Address**: 438 Geary St.
- **Phone**: 415-440-2737
- **Distance from Hotel**: 2 minutes
- **Website**: [colibrimexicanbistro.net](http://colibrimexicanbistro.net)

### Farmerbrown
- **Southern, Soul Food, Breakfast & Brunch**
- **Address**: 25 Mason St.
- **Phone**: 415-409-3276
- **Distance from Hotel**: 2 minutes
- **Website**: [www.farmerbrownsf.com](http://www.farmerbrownsf.com)

### Kare-Ken
- **Japanese**
- **Address**: 552 Jones St.
- **Phone**: 415-292-5273
- **Distance from Hotel**: 2 minutes
- **Website**: [www.kare-ken.com](http://www.kare-ken.com)

### Kusina Ni Tess
- **Filipino**
- **Address**: 237 Ellis St.
- **Phone**: 415-351-1169
- **Distance from Hotel**: 2 minutes
- **Website**: [www.kusinatinessf.com](http://www.kusinatinessf.com)

### Shalimar Restaurant
- **Indian**
- **Address**: 532 Jones St.
- **Phone**: 415-928-0333
- **Distance from Hotel**: 2 minutes
- **Website**: [www.shalimarrestaurant.com](http://www.shalimarrestaurant.com)

### Bluestem Brasserie
- **Brasseries**
- **Address**: One Yerba Buena Lane
- **Phone**: 415-547-1111
- **Website**: [www.bluestembrasserie.com](http://www.bluestembrasserie.com)

### Daily Grill
- **American**
- **Address**: 347 Geary St.
- **Phone**: 415-616-5000
- **Distance from Hotel**: 2 minutes
- **Website**: [www.dailygrill.com](http://www.dailygrill.com)

### Fish & Farm
- **American**
- **Address**: 339 Taylor St.
- **Phone**: 415-474-3474
- **Distance from Hotel**: 2 minutes
- **Website**: [www.fishandfarmssf.com](http://www.fishandfarmssf.com)

### Katana-Ya
- **Japanese**
- **Address**: 430 Geary St.
- **Phone**: 415-771-1280
- **Distance from Hotel**: 2 minutes
- **Website**: [www.katanayausa.com](http://www.katanayausa.com)

### Liholiho Yacht Club
- **Japanese**
- **Address**: 871 Sutter St.
- **Phone**: 415-440-5446
- **Distance from Hotel**: 2 minutes
- **Website**: [liholihoyachtclub.com](http://liholihoyachtclub.com)

### Pho Tan Hoa
- **Vietnamese**
- **Address**: 431 Jones St.
- **Phone**: 415-673-3163
- **Distance from Hotel**: 2 minutes
- **Website**: [www.photanhoa.com](http://www.photanhoa.com)

### Farm Table
- **Address**: 754 Post St.
- **Phone**: 415-567-1966
- **Distance from Hotel**: 2 minutes
- **Website**: [farmtablesf.com](http://farmtablesf.com)

### Bluestem Brasserie
- **Brasseries**
- **Address**: One Yerba Buena Lane
- **Phone**: 415-547-1111
- **Website**: [www.bluestembrasserie.com](http://www.bluestembrasserie.com)

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- **Distance from Hotel**: 2 minutes
- **Website**: [www.photanhoa.com](http://www.photanhoa.com)

### Farm Table
- **Address**: 754 Post St.
- **Phone**: 415-567-1966
- **Distance from Hotel**: 2 minutes
- **Website**: [farmtablesf.com](http://farmtablesf.com)

### Philz Coffee
- **Address**: 399 Golden Gate Ave
- **Phone**: 415-621-7000
- **Distance from Hotel**: 7 minutes
- **Website**: [philzcoffee.com](http://philzcoffee.com)

### Blue Bottle Coffee Co.
- **Address**: 611 Post St.
- **Phone**: 510-653-3394
- **Distance from Hotel**: 3 minutes
- **Website**: [bluebottlecoffee.com](http://bluebottlecoffee.com)

### Fresh Brew Coffee
- **Address**: 882 Bush St.
- **Phone**: 415-567-0915
- **Distance from Hotel**: 3 minutes
- **Website**: [freshbrewcoffee.com](http://freshbrewcoffee.com)

### Starbucks
- **Address**: 201 Powell St.
- **Phone**: 415-835-2470
- **Distance from Hotel**: 2 minutes
- **Website**: [www.starbucks.com](http://www.starbucks.com)

### Urban Tavern (Breakfast Only)
- **Address**: 600 N Point St.
- **Phone**: 415-749-2060
- **Distance from Hotel**: 2 minutes
- **Website**: [www.urban-tavern.com](http://www.urban-tavern.com)

### For more information on restaurants in San Francisco, visit [http://goo.gl/wkv5t4](http://goo.gl/wkv5t4)
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. Rehnborg 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. Eltzschig, 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

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
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
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
9:30 am – 12:00 pm  AUA: Celebration of the Science of Anesthesiology Symposium
  Protective Lung Ventilation in the Operating Room
9:30 am – 6:00 pm  Concurrent Sessions
  • Review Course Lectures • Panels
  • Workshop • Moderated Poster Discussion Sessions
12:00 pm – 1:00 pm  Problem-Based Learning Discussions (PBLDs)
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
1:00 pm – 5:00 pm  Scholars’ Program Education Sessions
5:00 pm – 6:00 pm  Scholars’ Program Reception
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

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

Presenters and sessions listed are as of press time and subject to change.
9:30 am - 12:00 pm

AUA
Association of University Anesthesiologists

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. Eltzschig, 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

12:00 pm - 1:00 pm

PROBLEM-BASED LEARNING DISCUSSIONS

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.

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

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.
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.

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, 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.

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 Anesthesiology

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.

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 Ivacu, 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.

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.
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.

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**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.

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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.

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.
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 Respirology (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 hypoxic states; and (4) Perform basic transthoracic echocardiography (TTE) examinations.

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.

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.
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.

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.

White Paper Submission Site Opens Soon for the IARS 2017 Annual Meeting!

Contribute to the IARS mission to encourage and stimulate innovative and forward-thinking anesthesia research and education! Submit your white paper proposal today and be a part of the IARS 2017 Annual Meeting and International Science Symposium education program!

IARS will be accepting proposals for Panels, Problem-Based Learning Discussion (PBLD) sessions, Symposia, and Workshops for possible inclusion in the IARS 2017 Annual Meeting and International Science Symposium, May 6-9, in Washington, DC.

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

Make sure you don’t miss this great opportunity!
For more information, visit www.iars.org.
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, MBBC, 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.

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.

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.

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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.

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

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.
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.

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**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 autononics in modulating cardiac arrhythmias; and
3. Evaluate the role of anesthetic techniques in therapies for complex arrhythmias.

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### 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 – 10:00 am**  
Scholars’ Program Panel-03  
**Impact and Academic Success**

**8:00 am – 11:00 am**  
International Science Symposium  
**The Promise of Stem Cell Therapies**

**6:30 am – 4:30 pm**  
Tabletop Exhibits

**8:00 am – 6:00 pm**  
Concurrent Sessions
- Review Course Lectures • Panels
- Workshops • Moderated Poster Discussion Sessions

**10:30 am – 12:00 pm**  
Scholars’ Abstract Awards Sessions

**1:00 pm – 2:30 pm**  
Kosaka Abstract Awards Session

**1:00 pm – 4:00 pm**  
Symposium  
**Are Most Published Findings in Anesthesiology Journals False?**

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### 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.

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**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.

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**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.

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**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 Atchabahian, 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.
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, FRCP, 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.

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.

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.

Anesthesia Subspecialty Key for Education Sessions

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

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PANELS   8:00 am - 9:30 am Continued

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

Co-Moderator: Keith A. (Tony) Jones, MD, Alfred Habeek 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.

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.

Visit the SmartTots Booth in the South Lounge!

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### 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.
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-Universitat Munster, Minden, 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

**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.

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.
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.

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.

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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. 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

- 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.

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.

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

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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 Margarson, 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

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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.

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  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

CA, CC, EEP, PA, PS

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.

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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 Cardiotoracic Anesthesia; Chair, Critical Response and Resuscitation Team, Cleveland Clinic, Cleveland, Ohio

- Critical Response & Resuscitation: The European Experience
  Andreas Hoeft, 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

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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

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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:

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PANELS  4:30 pm - 6:00 pm Continued

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.

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.

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### Annual Meeting Program Schedule • Saturday, May 21

#### TIMES
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
9:30 am - 10:15 am: ISAP: Can We Design Safer Anesthetics?
9:30 am - 10:15 am: AUA: Celebration of the Science of Anesthesiology: Protective Lung Ventilation in the Operating Room
11:00 am - 12:15 pm: ALIGNED MEETING DAY & FOCUS ON CRITICAL CARE DAY
1:00 pm - 2:00 pm: SOCCA: What’s New in Resuscitation
1:00 pm - 2:00 pm: SOCCA: Nomenclature for Post-Operative Cognitive Dysfunction (POCD)
2:00 pm - 3:15 pm: ALIGNED MEETING DAY & FOCUS ON CRITICAL CARE DAY
4:00 pm - 5:15 pm: Symposium: AUA: Celebrations of the Science of Anesthesiology: Protective Lung Ventilation in the Operating Room
5:15 pm - 6:00 pm: SOCCA: Nocardia: The Perioperative Surgical Home: “Now” Today, But Gone Tomorrow?
6:00 pm - 7:30 pm: Alignment Reception

#### REVIEW COURSE LECTURES
6:00 am - 6:00 pm

#### PANELS
9:30 am - 11:00 am: T.H. Seldon Memorial Lecture: Reproducible Research: Impact in Evidence-Based Decision Making – John P.A. Ioannidis, DSc, MD

#### PBLDs
9:00 am - 9:30 am: Please Identify Broken Heart

#### WORKSHOPS
9:00 am - 9:45 am: Introductory Perioperative Point-of-Care Ultrasound Workshop

#### SYMPOSIA
10:00 am - 11:45 am: Symposium: AUA: Celebrations of the Science of Anesthesiology: Protective Lung Ventilation in the Operating Room

#### SCHOLARS' PROGRAM
12:00 pm - 1:30 pm: Scholars' Dynamic and Interactive Small Group Sessions: 2:45 pm - 4:15 pm

#### MODERATED POSTER DISCUSSION SESSIONS
1:00 pm - 2:00 pm: Moderated and Foster Discussion Session

#### AWARDS SESSIONS
9:00 am - 9:30 am: Coffee with Exhibitors
4:00 pm - 4:30 pm: Coffee with Exhibitors
5:15 pm - 6:00 pm: Gallic Anesthesia: Role of Anesthesia and Autonomics

#### ALIGNED MEETING DAY & FOCUS ON CRITICAL CARE DAY
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<td>Crossing the Translational Pre-Clinical to Clinical Bridge and Back: What Information Can We Derive from Pre-Clinical Data? Do These Have Clinical Implications?</td>
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<td>Don’t Make Things Worse With Your Ventilator Setting!</td>
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<td>1:00 pm - 2:00 pm</td>
<td>Don’t Make Things Worse With Your Ventilator Setting!</td>
<td>RCL-06</td>
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<td>1:00 pm - 2:00 pm</td>
<td>Avoiding Transfusion: Managing and Preventing Perioperative Anemia</td>
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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.

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

**Co-Moderator:** Beatrice Beck-Schimmer, 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:** 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) Review available literature on obstetrical hemorrhage; (4) Discuss planning, preparation and resources to manage peri-partum hemorrhage; and (5) Explain the different treatment options for perioperative electrolyte abnormalities such as hyponatremia and hyperkalemia; and (6) Demonstrate possible indication and practical use of intraoperative renal replacement therapy.

**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 the cost-benefit ratio of point of care testing: TEG, Rotem, Platelet Works, Verify Now.

**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.

Presenters and sessions listed are as of press time and subject to change.
Monday, May 23

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

AP, EEP, PED, PS, RA

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

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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 Fergerson, 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.

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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

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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) 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

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, MBChB, 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.

AP, CC, EEP, OB, PS

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Monday, May 23

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.

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, MBChB, Washington University School of Medicine at St. Louis, St. Louis, Missouri
Beverley A. Orser, MD, PhD, FRCP, University of Toronto, Toronto, Ontario, Canada
Christian Werner, MD, University Medical Center, Johannes Gutenberg-Universität, Mainz, Germany

RCL-17  Regional Anesthesia in Improving Outcomes
Presenter: Colin McCartney, MBChB, PhD, FRCA, FCARCSI, FRCP, 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.

1:00 pm - 1:45 pm
PANELS  1:00 pm - 2:30 pm

SASM

P-29  Society of Anesthesia and Sleep Medicine Guideline on Preoperative Screening and Assessment of Patients with Sleep Disordered Breathing
Moderator: Frances Chung, MBBS, FRCP
Panelists:
- Does A Diagnosis of Obstructive Sleep Apnea Change Outcomes?
  Frances Chung, MBBS, FRCP, 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.
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.

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.

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Monday, May 23

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.

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.

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.

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

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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, 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
Tuesday, May 24

Daily Schedule-At-A-Glance

6:00 am – 12:00 pm Registration

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

PROBLEM-BASED LEARNING DISCUSSIONS
6:30 am - 7:30 am


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.

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 VIII and Massive Transfusion Protocol.

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.

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.

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.
Tuesday, May 24

**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**

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**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
- **AMB** = Ambulatory Anesthesia
- **AP** = Anesthetic Pharmacology
- **CA** = Cardiovascular Anesthesiology
- **CC** = Critical Care
- **EEP** = Economics, Education and Policy
- **EP** = Epidemiology
- **GA** = Geriatric Anesthesiology
- **GH** = Global Health
- **L** = Liver
- **NR** = Neuroscience in Anesthesiology and Perioperative Medicine
- **O** = Obesity
- **OB** = Obstetric Anesthesiology
- **PA** = Perioperative Anesthesia
- **PED** = Pediatric Anesthesiology
- **PM** = Pain Medicine
- **PME** = Pain Mechanisms
- **PS** = Patient Safety
- **RA** = Regional Anesthesia
- **SM** = Sleep Medicine
- **TCSEM** = Technology, Computing and Simulation, Equipment Monitoring
- **T** = Trauma
Tuesday, May 24

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 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.

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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

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.

White Paper Submission Site Opens Soon for the IARS 2017 Annual Meeting!

Contribute to the IARS mission to encourage and stimulate innovative and forward-thinking anesthesia research and education! Submit your white paper proposal today and be a part of the IARS 2017 Annual Meeting and International Science Symposium education program!

IARS will be accepting proposals for Panels, Problem-Based Learning Discussion (PBLD) sessions, Symposia, and Workshops for possible inclusion in the IARS 2017 Annual Meeting and International Science Symposium, May 6-9, in Washington, DC.

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

Make sure you don’t miss this great opportunity!

For more information, visit www.iars.org.
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
**Saturday, May 21 ▪ Moderated Poster Discussion Sessions**

### General Physical Posters

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### Medically Challenging Cases ePosters

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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.
Moderated Poster Discussion Sessions ▪ Saturday, May 21

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. L. 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. Vilasana, 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 School of Medicine, 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. Kenny6, N. E. Taylor7, J. Pei1, J. Yang1, 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 COLONOSCOPY 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

**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. Kriesek², 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

¹Anesthesia 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. Cavalcante², D. S. Eversole², J. Sprung¹, T. N. Weingarten¹

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

**S-249 OBSERVATIONAL PILOT STUDY INVESTIGATING SAFE ANESTHESIA PRACTICES DURING CAESARIAN SECTION IN KENYA**

K. G. McEvoy¹, M. Newton¹, M. Newton³, M. M. Mungai², M. D. McEvoy⁴

¹Anaesthesia, Kijabe Hospital, Kijabe, Kenya; ²Anaesthesia, Kijabe Hospital, Nairobi, Kenya; ³Anaesthesiology, Vanderbilt University, Nashville, TN; ⁴Anaesthesiology, Vanderbilt University, Nashville, TN

Perioperative Anesthesia 1

Abstracts in Poster Discussion Round:


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 TRAIL**

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. Riaz¹, N. Siddiqui¹, 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

**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  
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. Aghaeepour¹, E. A. Ganio², H. Lancero³, L. McNeil³, M. S. Tingle³, M. S. Angst⁴*  
¹Anesthesia, Stanford University, Palo Alto, California, ²Anesthesia, Stanford University, Stanford, California, ³Anesthesia, 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-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. Mehta⁴, M. Rich¹, M. Careskey², J. R. Generoso¹, R. L. Fidler¹, 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

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**S-277** INTELLIGIBILITY IN THE OPERATING ROOM: SIZE MATTERS  
*R. R. McNeer¹, C. L. Bennett²*  
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

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**S-337** DECORREATION IN THE OPERATING ROOM: SIZE MATTERS  
*R. R. McNeer¹, C. L. Bennett²*  
¹Department of Anesthesiology, University of Miami, Miami, Florida, ²Music Engineering, University of Miami, Coral Gables, Florida

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

**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*  
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

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**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. Mehta⁴, M. Rich¹, M. Careskey², J. R. Generoso¹, R. L. Fidler¹, 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

**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. Nemergut¹

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 TRANSSESOPHAGEAL ECHOCARDIOGRAPHY

Z. Knio¹, L. Yeh¹, A. Mashari², M. Montalegre-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 Anesthesiology, 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 (EXSPIRON) 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. Joshi²

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


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
Moderated Poster Discussion Sessions  ■  Saturday, May 21

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

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. Pare1, 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

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. Liang3, 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. Liang3, 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 FROPFOF: 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
Saturday, May 21 • Moderated Poster Discussion Sessions

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. Treskatsch⁵
¹Department of Anesthesiology and Intensiv Care Med, Charite - Universitaetsmedizin Berlin, Berlin, Germany, ²Department of Anaesthesiology and Intensive Care Medicine, Charite-Universitatsmedizin Berlin, Berlin, Germany, ³Department of Cardiovascular Surgery, Charite - Universitaetsmedizin Berlin, Berlin, Germany, ⁴Department of Anesthesiology and Intensiv Care Med, Universitätsklinikum Giessen, Giessen, Germany

**S-140  INTERRATER RELIABILITY OF DELIRIUM ASSESSMENTS BETWEEN INVESTIGATORS AT MULTIPLE INTERNATIONAL CENTERS**

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. Douglas⁵
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

**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. Kő²
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-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 GIOBLASTOMA BY SUPPRESSING TRPM7 CHANNELS**

J. Chen¹, C. Xiao², Y. Dou³, W. Zhu³, 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, ²Pharmacology, Zhongshan School of Medicine, Sun Yat-sen Universi, 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. Isosu, 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. Brannigan³, 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. Ornhuela², 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. Souki², A. Salama³, E. A. Pretto¹

¹Anesthesiology, Perioperative Medicine and Pain Management, University of Miami, Miami, Florida, ²Surgery, University of Miami, Miami, Florida
General Physical Posters

**PR01-09, continued**

**S-145** THE PROTECTIVE EFFECT OF INSULIN AGAINST ISOFLURANE OR SEVOFLURANE INDUCED HEPATOCYTOLOGICAL APOPTOSIS IN LAPAROSCOPIC CHOLECYSTECTOMY PATIENTS

K. G. Radwan¹, M. S. Amer¹, W. A. El Sorialy², M. A. Maher¹, O. A. Hammam¹, A. S. El Hadidy³, H. H. Okasha³

¹Anesthesia, Theodor Bilharz Research Institute, Giza, Egypt, ²Anesthesia, Kasr El Aini Hospital, Cairo, Egypt, ³Anesthesiology, Theodor Bilharz Research Institute, Giza, 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

**S-147** OPTIC NERVE SHEATH DIAMETER AND PULSATILITY INDEX MEASUREMENTS AS MARKER OF POOR PROGNOSIS IN ACUTE LIVER FAILURE

S. Sharma, C. K. Pandey

Anaesthesiology and Intensive Care, Institute of Liver and Biliary Sciences, New Delhi, India

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**Pediatric Anesthesiology 1**

Abstracts in Poster Discussion Round: S-241 – S-247

2:45 pm - 4:15 pm

**PR01-10**

**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. Bruenn³, 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


Anesthesiology and Critical Care Medicine, The Children’s Hospital of Philadelphia, Philadelphia, Pennsylvania
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
Anaesthesia & 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. Artimi², J. Tam², T. Burnett², O. L. Mancillas⁴, T. A. Syed⁵, C. A. Hagberg⁴

¹Anesthesiology and Neurosurgery, The University of Texas Health Science Center at Houston (UTH) McGovern Medical School, Houston, Texas
²Anesthesiology, The University of Texas Health Science Center at Houston (UTH) McGovern Medical School, Houston, Texas
³Physiology, University of Toronto, Toronto, Ontario, Canada
⁴Leslie Dan Faculty of Pharmacy, University of Toronto, Toronto, Ontario, Canada
⁵Physiology and Anesthesia, University of Toronto; Anesthesia, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

**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 (UTH) McGovern Medical School, Houston, Texas

**S-6**

**PERIOPERATIVE AIRWAY CHANGES AND THEIR RETURN TO BASELINE IN PATIENTS UNDERGOING ELECTIVE SURGERY IN THE PRONE AND TRENDLEBURG 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. Todd⁴, R. Fontes⁴, C. Puttlitz⁵

¹Mechanical Engineering, Colorado State University, Fort Collins, Colorado
²Mckay Orthopaedic Research Laboratory, University of Pennsylvania, Philadelphia, Pennsylvania
³Anesthesiology, 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 ßGABA RECEPTORS TO THE CELL MEMBRANE CAUSES SEDATION AND ATAXIA IN MICE**

D. Wang¹, J. Yu¹, R. P. Bonini², 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 Anesthesiology, 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. Applegate², 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. Schneider⁴

¹Anesthesiology, Helios Klinikum Wuppertal, Wuppertal, Germany, ²Anesthesiology, Klinikum rechts der Isar, Technische Universität München, Munich, Germany, ³Department of Neurosurgery, Universitätsklinikum Düsseldorf, Düsseldorf, Germany

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**Pain Mechanisms 1**

Abstracts in Poster Discussion Round: S-188, S-189, S-191 4:30 pm - 6:00 pm

**PR01-13**

**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. Gereau⁴

¹Anesthesiology, Washington University in St. Louis, St. Louis, Missouri, ²Otolaryngology, Washington University in St. Louis, St. Louis, Missouri
General Physical Posters

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 Anesthesia 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 Anesthesia 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, 3Department of Anesthesiology, Mount Sinai Hospital, 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, 3Anesthesiology, 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 Anesthesiology, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada, 3Anesthesiology, 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. Capaldi3, M. Rodgers4, K. Sheikh5, C. Lettieri2
1Anesthesiology, Uniformed Services University of the Health Sciences, Bethesda, Maryland, 2Sleep Medicine, Walter Reed National Military Medical Center, Bethesda, Maryland, 3Anesthesiology, Walter Reed National Military Medical Center, Bethesda, Maryland

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
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

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Medically Challenging Cases ePosters

**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. Carvallo, 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. LeFevre†, M. A. Evans‡, V. O’Reilly-Shah†
†Department of Anesthesiology, Division of Pediatric Anesthesiology, Emory University School of Medicine, Atlanta, Georgia, ‡Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia

**MC-21** 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-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
†Anesthesiology, 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

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**Medically Challenging Cases 3**
Abstracts in Poster Discussion Round: MC-14 – MC-20
1:00 pm - 2:30 pm  Monitor 3

**Medically Challenging Cases 4**
Abstracts in Poster Discussion Round: MC-22 – MC-25
1:00 pm - 2:30 pm  Monitor 1
**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. Huffmeyer, D. Colquhoun
Anesthesiology, University of Virginia Health System, Charlottesville, Virginia

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**MC-26  ANESTHETIC MANAGEMENT OF GRAVID PATIENT WITH FACTOR X DEFICIENCY**

P. Lahsaei¹, J. Dolak²
¹Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia, ²Department of Anesthesiology-Division of Obstetric Anesthesiology, Emory University School of Medicine, Atlanta, Georgia

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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

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**MC-28  ANESTHESIA MANAGEMENT OF VON HIPPEL LINDAU (VHL) DISEASE DURING PARTURITION**

K. Ng
Anesthesiology, Kaiser Permanente, Walnut Creek, California

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**MC-29  ANESTHETIC MANAGEMENT OF SPINAL MUSCLE ATROPHY DURING PREGNANCY**

S. Bahadur, Z. Patel
Anesthesiology, Georgia Regents University, Augusta, Georgia

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**MC-30  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

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**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

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**MC-32  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

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**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

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**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

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**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

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**MC-36  MACROGLOSSIA FOLLOWING POSTERIOR CRANIAL FOSSA SURGERY**

L. N. Vitale
Pediatric Anesthesiology, University of Michigan, Ann Arbor, Michigan

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**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

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

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 TAMPOONADE 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.
Saturday, May 21 • Moderated Poster Discussion Sessions

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 TAMPOONADE AND VENTRICULAR TEAR IN A PATIENT WITH MYXEDEMA COMA: IMPLICATIONS FOR ANESTHETIC AND PERIOPERATIVE CRITICAL CARE MANAGEMENT  
H. B. Barkin, S. AbdelFattah, G. Garcia, H. Goldman  
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
Moderated Poster Discussion Sessions • Saturday, May 21

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, 4Departmen of Anesthesiology and Perioperative Medicine, UMass Memorial Healthcare, Worcester, Massachusetts, 5Klinik für Anaesthesiologie, Technische Universität Muenchen, 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. Guterman6
1Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin, 2Physical Medicine and Rehabilitation, Medical College of Wisconsin, Milwaukee, Wisconsin, 3Medicine-Division of Cardiology, Medical College of Wisconsin, Milwaukee, Wisconsin, 4Pediatric Surgery, Medical College of Wisconsin, Milwaukee, Wisconsin, 5Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin

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. Yasuhara3, M. Kaneki4, J. Martyn5
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. Czosnyka2, 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

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
Saturday, May 21 - Moderated Poster Discussion Sessions

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. Nichols³, 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

S-442 THE ANALGESIC EFFECTS OF DOPAMINE IN MICE

N. E. Taylor¹, J. Pei¹, K. Vlasov¹, J. A. Guidera², J. T. Lee³, 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
¹Medical School, McGovern Medical School at UTHealth, Houston, Texas, 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
¹Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ²Foundation of Revitalization of Local Health Traditions, Institute of Ayurveda and Integrative Medicine, Bangalore, India

S-446 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
¹Department of Anesthesiology and Critical Care Medicine, The Johns Hopkins Hospital, Baltimore, Maryland, ²Department of Anesthesiology, Yale University, New Haven, Connecticut

Pain Medicine 1 & Regional Anesthesia 1
Abstracts in Poster Discussion Round:
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. Guidera², J. T. Lee³, 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
## General Physical Posters

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## Medically Challenging Cases ePosters

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## Scholars’ ePosters

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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.
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. Nourmahnad2, 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. Brodie3, K. van Heusden3, G. Dumont3, J. Ansermino4, R. N. Merchant3

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. Gross4, Y. J. Jung1, E. K. Santosa4, J. D. Bui8

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

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


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

**PR02-16, 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

1Anesthesiology, Montefiore Medical Center, Bronx, New York, 2Rowan University School of Osteopathic Medicine, Stratford, New Jersey, 3Research and Development, Coagulation Sciences, LLC, Bronx, Maine, 4Statistics, Columbia University, Hollywood, Florida, 5Anesthesiology, Montefiore Medical Center, New York, New York, 6Anesthesiology, Montefiore Medical Center, Riverdale, New York

**S-88** EFFECT OF IMMUNOGLOBULIN ON VIRULENCE OF PSEUDOMONAS AERUGINOSA IN VITRO CYTOTOXICITY ASSAY


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. Tachibana3, K. Isaka4, K. Kinouchi4

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, Human Biology, Vanderbilt University, Nashville, Tennessee, 4Department of Anesthesiology, Vanderbilt University, Nashville, Tennessee

**PR02-17**

Posterior 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 Tamimi2, R. K. Manzoor1, N. Kaul2

1Anaesthesia, National trauma Center, Khoul hospital, Muscat, Oman, 2Anaesthesia and ICU, Khoul Hospital, Al Harthy Complex, Oman

**S-185** ANALYSIS AND COMPARISON BETWEEN TERM VAGINAL DELIVERY AND TERM CESAREAN DELIVERY NEONATAL TEG 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 CESAREAN DELIVERY: ASSESSMENT OF HEMODYNAMIC PARAMETERS AND MATERNAL OUTCOMES

M. C. Vallejo1, O. M. Elzamzamy1, 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-BLIND 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

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. Cheriyan¹, M. Bush², R. Jones², J. Weihing³, J. B. Shinn³
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. Ozaki³
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 TROCAPS IN PIGS
E. Hermann¹, C. Schaeffer-Reiss², M. Hegen³, A. Charton³, M. Diana⁴, P. Diemunsch⁴
¹Anesthesiology and Intensive Care, University Hospital Hautepierre, Strasbourg, France, ²Anesthesiology, IPHC CNRS, Strasbourg, France, ³Anesthesiology and Intensive Care, Strasbourg University Hospital, Strasbourg, France, ⁴Digestive Surgery, IHU Strasbourg, Institute for Image-Guided Surgery, Strasbourg, France

S-226  OVERNIGHT NON-INVASIVE RESPIRATORY VOLUME MONITORING FOLLOWING PACU DISCHARGE AFTER GENERAL SURGERY
I. Bonney¹, T. Otero², M. McGuire³, F. Zahedi⁴, R. Schumann⁴
¹Anesthesiology, Tufts Medical Center, Boston, Massachusetts, ²Tufts University School of Medicine, Boston, Massachusetts, ³Clinical, Respiratory Motion, Inc., Waltham, Massachusetts

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
Moderated Poster Discussion Sessions  ●  Sunday, May 22

General Physical Posters

**PR02-19, continued**

**S-347  OBJECTIVE MEASUREMENT OF PAIN PERCEPTION IN LABORING WOMEN**

A. Eisenried, N. Austin, B. Carvalho, A. Akhbardeh, D. C. Yeomans, A. Z. Tzabazis

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. Sagar, S. Subramani

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. Chennapragada, V. Verma, A. Patel, M. Cohen, P. Sistla, K. G. Belani

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. Mackenzie, L. Lee, S. Yang, C. Chang, P. Hu

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. Carroll, L. Wierschke, J. Elicson, J. Kanack, N. Amit, G. Bilen-Rosas

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. Schmartz, A. C. Reis, C. Baumann, I. Clerc-Urmes, T. Fuchs-Buder

1Anesthesiology & Intensive Care, CHRU de Nancy, Vandoeuvre-les-Nancy, France, 2ESPRI-BIOBASE Unit - PARC, CHRU de Nancy, Vandoeuvre-les-Nancy, France

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**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 IN ANAESTHETIZED PATIENTS**

S. A. Barashidi, R. K. Manzoor, N. Kaul

1Anaesthesia, National Trauma Center, Khoul Hospital, Muscat, Oman, 2Anaesthesia and ICU, Khoul 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**


Anesthesiology, Loma Linda University School of Medicine, Loma Linda, California

**S-12  OPTOACOUSTIC ASSESSMENT OF ENDOTRACHEAL TUBE (ET) POSITION WITHIN THE TRACHEA**

N. Rios, P. Ford, N. Ribeiro Marques, I. Y. Petrov, Y. Petrov, D. S. Prough, M. Kinsky

1Anesthesiology, The University of Texas Medical Branch, Galveston, Texas, 2Anesthesiology, University of Arizona College of Medicine, Tucson, Arizona
General Physical Posters

PR02-20, 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, J. 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. Margarson
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
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. Gangopadhyay1, D. Fuchs5, J. L. Thompson4, R. Chandrasekhar4, 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
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
General Physical Posters

S-119 SIMULATION-BASED ASSESSMENT OF IMPROVEMENTS IN COGNITIVE PERFORMANCE IN AN ANESTHESIOLOGY RESIDENCY TRAINING PROGRAM
A. Sidi, T. Vasilopoulos, N. Gravenstein, S. Lampotang
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. Joshi3
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-115 EVALUATING WORKFLOW UNDERSTANDING FOR PREOPERATIVE ULTRASOUND – A CONSENSUS PROCESS USING A MODIFIED DELPHI METHOD
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. DiLorenzo3, M. M. Schumacher4, 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, 2Department of Anaesthesia, Brigham and Women's Hospital, Boston, Massachusetts, 3Anesthesiology, University of Vermont Medical Center, 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

Neuroscience in Anesthesiology & Perioperative Medicine 3
Abstracts in Poster Discussion Round: S-101, S-161 – S-167
10:30 am - 12:00 pm

S-122 ENHANCING FEEDBACK IN ANESTHESIA RESIDENCY PROGRAMS
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

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. Lai3, I. Tachtsidis4, C. E. Elwell5, M. Smith6
1Neurocritical Care, National Hospital for Neurology and Neurosurgery, London, United Kingdom, 2Medical Physics and Biomedical Engineering, UCL, London, United Kingdom
Sunday, May 22 • Moderated Poster Discussion Sessions

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

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**S-162**  ISOFLURANE REDUCES CEREBROVASCULAR DEPRESSION-INDUCED BY SINUSOIDAL GALVANIC STIMULATION IN A RAT MODEL OF VASOVAGAL SYNCPE

D. W. McBride¹, C. Reis¹, M. Yurashevich², J. Zhang¹, R. L. Applegate³, J. Tang⁴

¹Department of Basic Sciences, Loma Linda University, Loma Linda, California, ²Department of Anesthesiology, Loma Linda University, Loma Linda, California, ³Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, Pennsylvania, ⁴Pediatrics, University of Pittsburgh, Pittsburgh, Pennsylvania

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**S-163**  THE EFFECT OF ANESTHETIC AGENTS ON MARKERS OF NEUROLOGIC INJURY IN JUVENILE RATS

S. Straesser¹, M. Bruno², H. Alexander³, K. Simqu³, K. Janesko-Feldman³, M. Manole³, T. Drabek¹

¹Anesthesiology, University of Pittsburgh, Pittsburgh, Pennsylvania, ²Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, Pennsylvania, ³Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, Pennsylvania

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**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

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**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

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**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

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**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

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**S-277**  SMOKING CESSION: 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

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**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

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**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. Scottt, 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-Bustamante2
1Anesthesiology, University of Colorado SOM, Aurora, Colorado, 2ACCORDS, University of Colorado, Aurora, Colorado

S-464  **INCLUSION BODY MYOSITIS AND ANESTHESIA**

A. Mortenson1, J. Sprung2, J. Watson2, T. Weingarten1
1Anesthesiology, Mayo Clinic, Rochester, Minnesota, 2Neurology, Mayo Clinic, Rochester, Minnesota

**Cardiovascular Anesthesia 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. Peyer3, M. Berger2, A. Shaw4
1Department of Anesthesiology, Division of Veterans Affairs, Duke University Medical Center, Durham, North Carolina, 2Department of Anesthesiology, Duke University Medical Center, Durham, North Carolina, 3Boston Strategic Partners, Inc., Boston Strategic Partners, Inc., Boston, Massachusetts, 4Department of Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

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
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

S-121  OUTCOME PREDICTABILITY AFFECTS ENGAGEMENT AND PERFORMANCE IN HIGH-STAKES SIMULATION

S. T. Samuelson1, A. Goldberg2, S. DeMaria2
1Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York, 2Anesthesiology, Icahn School of Medicine at Mount Sinai, New York

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. McKinnon1, 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
1Anesthesiology, University of Michigan, Ann Arbor, Michigan, 2Center for Clinical Management Research, VA Ann Arbor Healthcare System, Ann Arbor, Michigan

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

**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. Rosero, G. P. Joshi

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. Tsai, A. C. Rubens, J. D. Michelson, C. E. Birch, J. A. McAvoym, A. A. Jacobs, J. P. Gilwee

1Anesthesiology; Orthopedics and Rehabilitation (by courtesy), University of Vermont College of Medicine, Burlington, Vermont; 2Anesthesiology, University of Vermont College of Medicine, Burlington, Vermont; 3Orthopedics and Rehabilitation, University of Vermont College of Medicine, Burlington, Vermont; 4Anesthesiology and Critical Care, Stanford University School of Medicine, Stanford, California; 5Family Medicine, University of Vermont College of Medicine, Burlington, Vermont; 6Internal Medicine, University of Vermont College of Medicine, Burlington, Vermont

**S-288**  
**PALONOSETRON-DEXAMETHASONE COMBINATION FOR PROPHYLAXIS OF POST-OPERATIVE NAUSEA AND VOMITING AFTER LAPAROSCOPIC CHOLECYSTECTOMY**

S. Singh

Anaesthesiology, Sanjay Gandhi Post Graduate Institute of Medical Science, Lucknow, India

**S-289**  
**FAILURE TO CHILL: AN EXPRESS TICKET TO WASTED BLOOD PRODUCTS!**

A. L. Screws, J. R. Pelletier, J. D. White

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. Peretich, M. Engoren, E. S. Jewell, M. D. Maile

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. Curatolo, A. Goldberg, D. Maerz, H. Shah, H. Lin, M. Trinh

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
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

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,
2Department of Medical-Surgical Science and Biotechnologies, University of Rome, Sapienza, Rome, Italy,
3Thoracic Transplant Laboratory, Washington University St. Louis, St. Louis, Missouri

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

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,
2Anesthesiology, 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

C. Puyo1, D. Peruzzi2, A. Earhart1, I. Mohsen3, A. Gelman3
1Anesthesiology, Washington University St. Louis, St. Louis, Missouri,
2Department of Medical-Surgical Science and Biotechnologies, University of Rome, Sapienza, Rome, Italy,
3Thoracic Transplant laboratory, Washington University St. Louis, St. Louis, Missouri
General Physical Posters

**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, Charité - Universitätsmedizin Berlin, Berlin, Germany

**S-106** 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. Bentov³, G. Demiralp³, B. D. Winters¹, D. A. Schwengel¹
¹Department of Anesthesiology, Division of Cardiac Anesthesia, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, ²Department of Anesthesiology & Pain Medicine, University of Washington Medical Center, Seattle, Washington, ³Department of Anesthesiology, The University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, ⁴Department of Anesthesiology and Critical Care Medicine, The Johns Hopkins Hospital, Baltimore, Maryland

**S-107** INCIDENCES AND CAUSES OF CANCELLATION OF ELECTIVE SURGERY AT HRH PRINCESS MAHA CHAKRI SIRINDHRON MEDICAL CENTER

V. Pattaratuma, J. Limim
Anesthesiology, Srinakharinwirot University, Nakhornnayok, Thailand

**S-108** IMPROVED METHODS FOR DESIGN AND ANALYSIS OF COMPOSITE ENDPOINTS

E. J. Mascha
Quantitative Health Sciences, Cleveland Clinic, Cleveland, Ohio

**S-109** PREJUDICE OR PERSPECTIVE? SUBJECTIVE VALUATION OF SIMULATION CORRELATES WITH OBJECTIVE PERFORMANCE

S. T. Samuelson¹, S. DeMaria², A. Goldberg¹
¹Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York, ²Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York

**S-110** CALM WITHIN THE STORM: EMOTIONAL SELF-REGULATION AFFECTS GRADED PERFORMANCE IN HIGH-STAKES SIMULATION

S. T. Samuelson¹, A. Goldberg², S. DeMaria³
¹Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York, ²Anesthesiology, Mount Sinai Medical Center, New York, New York, ³Anesthesiology, The Mount Sinai Medical Center, New York, New York

**S-111** NORA FIRST CASE START DELAYS: A TALE OF TWO CITIES

S. E. O’Donnell¹, J. A. Sanford², E. M. Maddy³, 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-112** NON-OPERATING ROOM ANESTHESIA CANCELLATION RATES

J. Sanford¹, D. A. Andritsos², M. H. Tsai³, R. D. Urman⁴, S. E. O’Donnell³
¹Anesthesiology, UAMS, Little Rock, Arkansas, ²Operations Management and Information Technology, HEC Paris, Paris, France, ³Anesthesiology; Orthopedics and Rehabilitation (by courtesy), University of Vermont College of Medicine, Burlington, Vermont, ⁴Anesthesiology, Brigham and Women’s Hospital, Boston, Massachusetts, ³Anesthesiology, University of Vermont College of Medicine, Burlington, Vermont

**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-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
¹Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York, ²Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York

**S-135** CALM WITHIN THE STORM: EMOTIONAL SELF-REGULATION AFFECTS GRADED PERFORMANCE IN HIGH-STAKES SIMULATION

S. T. Samuelson¹, A. Goldberg², S. DeMaria³
¹Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York, ²Anesthesiology, Mount Sinai Medical Center, New York, New York, ³Anesthesiology, The Mount Sinai Medical Center, New York, New York

**S-136** NORA FIRST CASE START DELAYS: A TALE OF TWO CITIES

S. E. O’Donnell¹, J. A. Sanford², E. M. Maddy³, 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’Donnell³
¹Anesthesiology, UAMS, Little Rock, Arkansas, ²Operations Management and Information Technology, HEC Paris, Paris, France, ³Anesthesiology; Orthopedics and Rehabilitation (by courtesy), University of Vermont College of Medicine, Burlington, Vermont, ⁴Anesthesiology, Brigham and Women’s Hospital, Boston, Massachusetts, ³Anesthesiology, University of Vermont College of Medicine, Burlington, Vermont
PR02-31

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

¹Anesthesiology, Copenhagen University Hospital, Copenhagen, Denmark, 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

¹Anesthesiology, University California San Diego, San Diego, California, ²Anesthesiology, Duke University, Durham, North Carolina, ³Anesthesiology, Wake Forest University Baptist Medical Center, Winston-Salem, North 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

J. S. Saran¹, A. Hoefnagel², C. Feng³, D. Smith¹

¹Department of Anesthesiology, University of Rochester School of Medicine, Rochester, New York, ²Department of Anesthesiology, University of Florida--Jacksonville, Jacksonville, Florida, ³Department of Biostatistics 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. Chira², S. Pasupuleti³, 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


Department of Anesthesiology, Pharmacology & Therapeutics, The University of British Columbia, Vancouver, British Columbia, Canada

S-320  UNIPOINT AND MULTIPOINT EPIDURAL CATHETERS IN POST-SURGICAL PATIENTS

M. R. Foley¹, M. Connolly², B. VanderWielen², M. Shnider², 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

PR02-32

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

**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. Housley1, A. Dering1, M. Neff1, B. Miller2, A. Shanks3, G. Mashour1

1Anesthesiology, University of Michigan, Ann Arbor, Michigan, 2Orthopaedic Surgery, University of Michigan, Ann Arbor, Michigan

**S-170**  CLOSED LOOP CONTROL OF TOTAL INTRAVENOUS ANESTHESIA DURING SIGNIFICANT INTRAOPERATIVE BLOOD LOSS

S. M. Brodie1, N. C. West1, M. Gorges2, J. Ansermino1, K. van Heusden1, G. Dumont3, R. N. Merchant1

1Anesthesiology, Pharmacology & Therapeutics, University of British Columbia, Vancouver, British Columbia, Canada, 2Pediatric Anesthesia Research Team, Child & Family Research Institute, Vancouver, British Columbia, Canada, 3Electrical and Computer Engineering, University of British Columbia, Vancouver, British Columbia, Canada

**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. Gorges3, G. Dumont2, J. Ansermino1, R. N. Merchant1

1Anesthesiology, Pharmacology & Therapeutics, University of British Columbia, Vancouver, British Columbia, Canada, 2Pediatric Anesthesia Research Team, Child & Family Research Institute, Vancouver, British Columbia, Canada, 3Electrical and Computer Engineering, University of British Columbia, Vancouver, British Columbia, Canada

**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. Messe3, S. J. Ratcliffe5, M. A. Acker1, T. F. Floyd6


**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
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

¹Outcomes Research, Anesthesiology Institute, Cleveland Clinic Foundation, Cleveland, Ohio, ²Research, Respiratory Motion, Inc., Waltham, Massachusetts

**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

¹Anesthesiology, Perioperative Care, and Pain Medicine, New York University Langone Medical Center, New York, New York, ²Anesthesiology, Perioperative Care, and Pain Medicine, New York University School of Medicine, New York, New York

**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

Department of Anesthesiology and Pain Medicine, Chung-Ang University Hospital, Seoul, Republic of Korea

**S-198** EFFECT OF PERIOPERATIVE PREGABALIN ON ACUTE AND CHRONIC POSTOPERATIVE PAIN IN PATIENTS UNDERGOING BREAST SURGERY

K. C. Pant¹, S. Singh²

¹Anaesthesiology, SGPGIMS Lucknow U.P. India, Lucknow, India, ²Anaesthesiology, Sanjay Gandhi Post Graduate Institute of Medical Science, Lucknow, India

**S-203** PREVALENCE AND CHARACTERISTIC OF OPPIOID 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

**S-248** FIBRINOLYSIS IN CHILDREN UNDERGOING MAJOR CRANIAL VAULT SURGERY

T. Nguyen¹, H. Lam², T. M. Austin³, J. Schoenecker⁴

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Anesthesiology, Emory University, Atlanta, Georgia, ³Anesthesiology, Emory Hospital, Atlanta, Georgia, ⁴Orthopaedics, Vanderbilt University Medical Center, Nashville, Tennessee

**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

¹Anesthesiology, Vanderbilt University, Nashville, Tennessee, ²Nursing Education, Vanderbilt University, Nashville, Tennessee

**S-251** ANESTHETIC DILEMMA: CHILDHOOD OBSTRUCTIVE SLEEP APNEA IS A RISK FACTOR FOR EARLY POSTOPERATIVE PAIN FOLLOWING AMBULATORY SURGERY

W. Chimbira¹, O. Nafiu²

¹Anesthesiology, University of Michigan, Ann Arbor, MI, ²Anesthesiology, University of Michigan Health Systems, Ann Arbor, Michigan

**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

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**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

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Anesthesiology, Emory University, Atlanta, Georgia, ³Anesthesiology, Emory Hospital, Atlanta, Georgia, ⁴Orthopaedics, Vanderbilt University Medical Center, Nashville, Tennessee

**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

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**S-251** ANESTHETIC DILEMMA: CHILDHOOD OBSTRUCTIVE SLEEP APNEA IS A RISK FACTOR FOR EARLY POSTOPERATIVE PAIN FOLLOWING AMBULATORY SURGERY

W. Chimbira¹, O. Nafiu²

¹Anesthesiology, University of Michigan, Ann Arbor, MI, ²Anesthesiology, University of Michigan Health Systems, Ann Arbor, Michigan

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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

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*General Physical Posters*
Perioperative Anesthesia 4

Abstracts in Poster Discussion Round:
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 TROPOIN ELEVATION IN PATIENTS UNDERGOING NONCARDIAC SURGERY

L. M. Vernooij¹, W. A. van Klei², M. Machina², W. Pasma³, 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 Anesthesiology, Children’s Hospital of Philadelphia, Philadelphia, Pennsylvania, 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. Vernooij¹, 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-274 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-275 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

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. Dickens³, B. Ayres¹, M. P. Margarson³, 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 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. Margarson, 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. Bullard², K. Bartels¹, A. Fernandez-Bustamante³

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 PROPFOOL 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. Franklin¹, J. P. Wanderer²

¹Pediatric Anesthesiology, Vanderbilt University Hospital, Nashville, Tennessee, ²Department of Anesthesiology, Vanderbilt University, Nashville, Tennessee
Medically Challenging Cases ePosters

**MC-51** 3D TRANSSESOPHAGEAL 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

**MC-57** CLASSIC TRIAD: PHEOCHROMOCYTOMA, BETA-BLOCKER, HEMODYNAMIC COLLAPSE  
S. Hynes¹, A. Young², J. M. Gelow³, D. Sedehi³  
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. Danny, 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. Russell²  
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 VASOPLIGIE AND HEART FAILURE SUPPORTED BY AN IMPELLA 5.0 VENTRICULAR ASSIST DEVICE  
M. S. Murrell¹, B. Helseth², M. Epping³, D. B. Langdon¹, N. Mahnke¹, S. Venticinque¹  
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. Ahmed¹, C. R. Hansebout¹, M. Doroshenko¹, S. Worah¹  
¹Anesthesiology, SUNY Downstate Medical Center, Brooklyn, New York, ²Neurobiology and Behavior, SUNY Stony Brook, Stony Brook, New York
Sunday, May 22 • Moderated Poster Discussion Sessions

Medically Challenging Cases ePosters

**MC-68** TRANSITORY INTRAOPERATIVE HYPERCAPNIA AND TACHYCARDIA: SHOULD WE BE CONCERNED ABOUT MALIGNANT HYPERTHERMIA?
K. Kamra
Anesthesia, Stanford, Stanford, California

**MC-69** DEXMEDETOMIDINE TREATMENT FOR POSTICTAL DELIRIUM AFTER ELECTROCONVULSIVE THERAPY
R. Brewer¹, K. A. Candioti², 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

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**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
¹Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia, ²Department of Anesthesiology, Division of Pediatric Anesthesiology, Emory University School of Medicine, Atlanta, Georgia

**MC-63** PERI-OPERATIVE CONSIDERATIONS IN A PATIENT WITH WALKER-WARBURG SYNDROME
D. B. Gruner, E. T. Stickles
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
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

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Medically Challenging Cases 11
Abstracts in Poster Discussion Rounds: MC-62 – MC-68
8:00 am - 9:30 am  Monitor 3

Medically Challenging Cases 12
Abstracts in Poster Discussion Rounds: MC-69 – MC-74
10:30 am - 12:00 pm  Monitor 1
Medically Challenging Cases ePosters

**MCC02-12, continued**

**MC-74** UNEXPLAINED PERSISTENT HYPOXEMIA DIAGNOSING AND TREATING METHEMOGLOBINEMIA

K. Kassel¹, J. Hayes¹, L. Weintraub²

¹Anesthesiology, Albany Medical College, Albany, New York, ²Pediatric Hematology/Oncology, Albany Medical College, Albany, New York

**MC-75** ACQUIRED FACTOR VIII DEFICIENCY IN MAJOR VASCULAR SURGERY: INTRAOPERATIVE 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-Ruiz², 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. Reinfelder

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

**MC-82** OPEN ABDOMINAL AORTIC ANEURYSM REPAIR COMPPLICATED 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

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
P. S. Downey¹, J. Sobol²
¹Department of Anesthesiology and Critical Care, Columbia University/New York-Presbyterian Hospital, New York, New York, ²Department of Anesthesiology, Columbia University, New York, New York

MC-86 CLOSTRIDIUM SORDELLII ANOTHER KILLER THAT GOES UNPUNISHED
A. Gorgy¹, J. Aronsohn²
¹Anesthesiology, NS-LIJ Health System, New Hyde Park, New York, ²Department of Anesthesiology, NS-LIJ Health System, New Hyde Park, New York

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. Dudaryk²
¹Anesthesiology, Jackson Memorial Hospital, Miami, Florida, ²Anesthesiology, University of Miami, Miami, Florida

MC-89 PULMONARY CONTUSION COMPLICATING PERIOPERATIVE OXYGENATION
J. Nguyen¹, D. R. Solanki²
¹Anesthesiology, University of Texas Medical Branch, Galveston, Texas, ²Anesthesiology, University of Texas Medical Branch, League City, Texas

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. Liri², N. Davis¹
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-92 ANESTHETIC CHALLENGES IN A CASE OF NEONATAL CONGENITAL LOBAR EMPHYSEMA
J. J. Woo¹, F. Afroz², P. Mishra²
¹Anesthesiology, Albany Medical Center, Albany, New York, ²Anesthesiology, Albany Medical College, Albany, New York

MC-93 ANESTHETIC MANAGEMENT OF A PATIENT WITH VACTERL AND LISSENCEPHALY
K. M. von Kriegenbergh, K. Chaudhuri
Anesthesiology, Texas Tech University Health Sciences Center, Lubbock, Texas
Moderated Poster Discussion Sessions • Sunday, May 22

Medically Challenging Cases 16
Abstracts in Poster Discussion Rounds:
1:00 pm - 2:30 pm  Monitor 2

Medically Challenging Cases 17
Abstracts in Poster Discussion Rounds:
MC-21, MC-106 – MC-110
2:45 pm - 4:15 pm  Monitor 3

MCC02-15, continued

MC-96  GOING WITH THE FLOW: ANESTHETIZING A CHILD FOR A NOVEL PROCEDURE
L. Weaver¹, Z. A. Quinonez²
¹Pediatric Cardiovascular Anesthesia, Texas Children’s Hospital, Houston, Texas, ²Pediatric Cardiovascular Anesthesia, Texas Children’s Hospital/Baylor College of Medicine, Houston, Texas

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. Oshima², Y. Okubo³, S. Suh¹, N. Fukunaga³, K. Yamazaki³
¹The Departments of Anesthesiology and Critical Care, Kobe City Medical Center General Hospital, Kobe, Japan, ²The Department of General Thoracic Surgery, Kobe City Medical Center General Hospital, Kobe, Japan, ³The Department of Cardiovascular Surgery, Kobe City Medical Center General Hospital, Kobe, Japan

MC-99  NOSOCOMIAL METHEMOGLOBINEMIA RESULTING FROM SELF-ADMINISTRATION OF BENZOCAINE SPRAY
N. Atria, C. R. Hoffman, P. C. Kalkiri, 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 ROHHD SYNDROME FOR ECCE/IOL
O. Lelyanov, C. H. Fraztola, M. A. Woo, J. Tse
Anesthesiology, Rutgers Robert Wood Johnson Medical School, New Brunswick, New Jersey

MC-103  OVER-SEDATION WITH KETAMINE
K. Coger, M. Donnelly
Department of Anesthesiology, University of Colorado, Aurora, Colorado

MC-104  USEFULNESS OF CARDIOPULMONARY BYPASS FOR MASSIVE HEMORRHAGE DURING VIDEO-ASSISTED THORACIC SURGERY
M. Akatsu³, S. Yamamoto¹, H. Mochizuki², M. Yamakage²
¹Department of Anesthesiology, Obihiro-Kosei General Hospital, Obihiro, Japan, ²Anesthesiology, Sapporo Medical University, Sapporo, Japan

MC-21  MASSIVE ANTERIOR MEDIASTINAL MASS ANESTHETIC MANAGEMENT
N. Pal¹, K. Breslin¹, P. Nicolato², V. Yajnik³
¹Dept of Anesthesiology and Critical Care, Virginia Commonwealth University, Richmond, Virginia, ²Dept of Cardiothoracic Surgery, Virginia Commonwealth University, Richmond, Virginia, ³Dept of Anesthesiology, Department of Critical Care Medicine, Virginia Commonwealth University, Richmond, Virginia
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

¹Department of Pulmonary and Critical Care Medicine, Mayo Clinic, Rochester, Minnesota, ²Department of Anesthesia, Mayo Clinic, Rochester, Minnesota

**MC-109**  PROFOUND IN-HOSPITAL NON-ENVIRONMENTAL HYPOTHERMIA – POSSIBLE CAUSES AND PERIOPERATIVE IMPLICATIONS

A. G. Cook¹, R. R. McNeer², R. Dudaryk²

¹Anesthesiology, Jackson Memorial Hospital, Miami, Florida, ²Anesthesiology, University of Miami, Miami, Florida

**MC-110**  THE CORRECTION OF CALCIUM CHANNEL BLOCKER TOXICITY WITH MARSI THERAPY

M. A. Evans¹, R. Subramanian²

¹Department of Anesthesiology, Emory University School of Medicine, Atlanta, Georgia, ²Department of Medicine, Emory University School of Medicine, Atlanta, Georgia

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**MCC02-18**

Abstracts in Poster Discussion Rounds:
MC-111, MC-113 – MC-116
2:45 pm - 4:15 pm  Monitor 1

**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 Antonio, San Antonio, Texas

**MC-113**  LEFT VENTRICULAR ASSIST DEVICE FOR TREATMENT OF CARDIOGENIC SHOCK DURING LIVER TRANSPLANT

J. Z. Reed¹, L. F Maracaja Neto²

¹Anesthesiology, UT Health Science Center San Antonio, San Antonio, Texas, ²Anesthesiology, University of Texas Health Science Center San Antonio, San Antonio, Texas

**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
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 INTRATELICAL 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 EXTREMEITY 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 Ilioinguinal 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 INTRATELICAL BACLOFEN CESSION FROM IATROGENIC INTRANETTEFAL 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. Galusca
Anesthesiology, Henry Ford Hospital, Detroit, Michigan
Medically Challenging Cases ePosters

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. Kulkarni², P. Singh¹
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. Changvakelet
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
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. Larmann², S. Immenschuh³, G. Theilmeier⁴
¹Anesthesia, University Hospital Heidelberg, Heidelberg, Germany, ²Transfusion 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. Helwani³, P. Nagel²
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. Nagel
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. Kheterpal², E. S. Jewell³, S. Sathishkumar⁴
¹Anesthesiology, University of Michigan, Ann Arbor, Michigan, ²Department of Anesthesiology, University of Michigan Health System, Ann Arbor, Michigan

S-416  MORPHINE ACTIVATES ENDOTHELIAL CELLS AND PROMOTES MONOCYTE ADHESION IN VITRO
J. Neubauer¹, M. Buelt², H. Janssen³, J. Larmann²
¹Department of Anesthesiology and Intensive Care Medicine, Hannover Medical School, Hannover, Germany, ²Department of Anesthesiology, University Hospital Heidelberg, Heidelberg, Germany

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-418  NON-CARDIAC SURGERY IN PATIENTS WITH LEFT VENTRICULAR ASSIST DEVICES: AN INSTITUTIONAL OUTCOMES STUDY
M. R. Mathis¹, M. Engoren¹, S. Kheterpal², E. S. Jewell³, S. Sathishkumar⁴
¹Anesthesiology, University of Michigan, Ann Arbor, Michigan, ²Department of Anesthesiology, University of Michigan Health System, Ann Arbor, Michigan

S-419  MORPHINE ACTIVATES ENDOTHELIAL CELLS AND PROMOTES MONOCYTE ADHESION IN VITRO
J. Neubauer¹, M. Buelt², H. Janssen³, J. Larmann²
¹Department of Anesthesiology and Intensive Care Medicine, Hannover Medical School, Hannover, Germany, ²Department of Anesthesiology, University Hospital Heidelberg, Heidelberg, Germany

S-420  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-421  INCREASING UPTAKE OF COGNITIVE AIDS IN CRITICAL EVENTS
A. Siddiqui¹, E. Ng², T. Everett²
¹Department of Anesthesiology, University of Toronto, Toronto, Ontario, Canada, ²Department of Anesthesiology and Pain Medicine, University of Toronto - Hospital for Sick Children, Toronto, Ontario, Canada
SCH02-05, continued

S-427 PREDICTORS OF READMISSIONS FOLLOWING HEART VALVE SURGERY
F. Mahmood1, E. Mahmood2, Z. O. Knio3, R. Matyal2
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 HANDBOFF CURRICULUM IN ANESTHESIA RESIDENCY PROGRAMS: A NATIONAL SURVEY OF PROGRAM DIRECTORS
M. Plash1, A. K. Brooks2, M. B. Lane-Fall1, L. Riesenberg1
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
1Anesthesiology, Saint Joseph’s Regional Medical Center, Paterson, New Jersey, 2Anesthesiology, St. Joseph’s Regional Medical Center, Paterson, New Jersey

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. Taras1, K. Taylor2
1Department of Anesthesia, University of Toronto, Toronto, Ontario, Canada, 2Department of Anesthesia, Hospital for Sick Children, University of Toronto, Toronto, Ontario, Canada

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. Liau2, L. Chen1, J. E. Havidich3, R. P. Dutton1
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
1Department of Anesthesia, Vanderbilt University, Nashville, Tennessee, 2Departments of Anesthesiology, Biomedical Informatics, Surgery, and Health Policy, Vanderbilt University, Nashville, Tennessee, 3Departments of Anesthesiology and Biomedical Informatics, Vanderbilt University, Nashville, Tennessee
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

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

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 SILICO SIMULATION
S. S. Pfost¹, N. Ribeiro Marques¹, J. Wolf¹, G. Cao², T. Luspay³, K. Grigoriadis³, 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

S-472 TECHNICAL PROGRESS IN ANESTHESIA MONITORING AND CONTROL SYSTEM
N. Ribeiro Marques¹, J. Wolf¹, C. Ciocoiu²
¹Anesthesiology, University of Texas Medical Branch, Galveston, Texas, ²Mechatronics, Georgia Institute of Technology, Atlanta, Georgia

SCH02-09

Poster Moderator: J. A. Hyder, M.D., Mayo Clinic, Rochester, Minnesota

S-402 SAME-DAY CANCELLATION IN OUTPATIENT SURGERY: A RETROSPECTIVE REVIEW AT A LARGE ACADEMIC TERTIARY REFERRAL CENTER
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
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. Rao³, E. Samaha⁴, P. Nagele⁵
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. Hare³, 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.
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**General Physical Posters**

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<td>M. M. Todd¹, E. Bayman¹, B. Hindman¹, D. DeMik², D. Elhag²</td>
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<td>¹Anesthesia, University of Iowa, Iowa City, Iowa, ²Anesthesia, University of Iowa Carver College of Medicine, Iowa City, Iowa</td>
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<td>INTRAOPERATIVE ANTIBIOTIC PROPHYLAXIS BY CONTINUOUS INFUSION VS INTERMITTENT BOLUSES FOR PANCREATIC SURGERIES</td>
<td>P. Balduyeu¹, N. Gravenstein², H. Le²</td>
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<td>¹Anesthesiology, University of Health Shands Hospital Gainesville, Gainesville, Florida, Florida</td>
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<td>EFFECT OF ABCB1 RS12720464 AND RS1055302 POLYMORPHISMS IN CHINESE PATIENTS ON THE TIME-COURSE OF ACTION OF ROCURONIUM ADMINISTERED AS A SINGLE DOSE</td>
<td>T. Qi¹, Y. Zhou²</td>
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<td>¹Anesthesiology, Anesthesiology First Affiliated Hospital, Zhengzhou, China, ²Anesthesiology, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts</td>
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<td>S. Lampotang¹, D. E. Lizdas³, H. Derendorf³, N. Gravenstein³, B. Lok³, J. Quarles³</td>
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<td>¹Anesthesiology, University of Florida, Gainesville, Florida, ³Pharmaceutical Sciences, University of Florida, Gainesville, Florida, ³Computer and Information Sciences and Engineering, University of Florida, Gainesville, Florida, ³Computer Science, University of Texas at San Antonio, San Antonio, Texas</td>
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<td>EVALUATION AND CONTROL OF WASTE ANESTHETIC GAS (WAG) IN THE POST-ANESTHESIA CARE UNIT (PACU) WITHIN PATIENT AND CAREGIVER BREATHING ZONE</td>
<td>G. Williams¹, E. G. Pivalizza², S. Gumbert³, O. L. Manchillas³, T. Burnett², T. A. Syed², C. A. Hagberg²</td>
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<td>¹Anesthesiology and Neurosurgery, The University of Texas Health Science Center at Houston (UTHealth) McGovern Medical School, Houston, Texas, ³Anesthesiology, The University of Texas Health Science Center at Houston (UTHealth) McGovern Medical School, Houston, Texas</td>
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<td>INHIBITION OF TRPM7 CHANNELS IN HEK-293 CELLS BY LOCAL ANESTHETICS</td>
<td>D. Holiprosad¹, K. Etwaru¹, C. Xiao², J. Dilger¹, J. Lin²</td>
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<td>¹Anesthesiology, Stony Brook University, Stony Brook, New York, ²Department of Anesthesiology, Stony Brook University, Stony Brook, New York, ³Department of Anesthesiology, Stony Brook University Health Sciences Center, Stony Brook, New York</td>
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<td>LOCAL ANESTHETICS INHIBITED BREAST CANCER CELL GROWTH</td>
<td>C. Xiao, S. Chakraborty, J. Dilger, J. Lin</td>
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<td>Department of Anesthesiology, Stony Brook University, Stony Brook, New York</td>
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<td>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</td>
<td>S. Meier¹, P. Meyer¹, A. R. Absalom¹, S. P. Sweeney², J. A. Campagna², J. J. Marota¹, M. M. Struys²</td>
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<td>¹Department of Anesthesiology, University of Groningen, Groningen, Netherlands, ²Surgery and Perioperative Care, The Medicines Company, Parsippany, New Jersey, ³Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts</td>
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Moderated Poster Discussion Sessions  ■ Monday, May 23

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. McCarty³, J. Cooper³, 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, ³Medicine, Boston Medical Center, Boston, Massachusetts, ³Anesthesia, 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
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
Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-231 INTRAVENTOUS 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. Ruesbsam
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. Dickson*, K. G. *Belani*¹, A. *Wynia*, J. *Srikanthan*¹

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


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. Porter*, O. *Nafiu*

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. Schnepper*¹, B. *Kightlinger*¹, S. *Aho*¹, Y. *Jiang*², B. *Wolf*², E. *Bolin*¹, S. H. *Wilson*¹

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


Department of Anesthesiology, Ann & Robert H. Lurie Children’s Hospital, Chicago, Illinois
Moderated Poster Discussion Sessions • Monday, May 23

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. Mitsui¹, H. Furukawa², M. Korai³, 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. Mueller³

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. 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 Dossow³

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
Monday, May 23 • Moderated Poster Discussion Sessions

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
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

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 CHOLECECTOMY
S. Singh
Anaesthesia, Sanjay Gandhi Post Graduate Institute of Medical S, Lucknow, India
## General Physical Posters

### 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

* Anesthesiology, 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

### 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. Magnuson², 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. Wijeysundera¹, 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 TRANSCATHETER AORTIC VALVE IMPLANTATION.

C. A. Luzzi1, D. Orlov2, G. Djaiani1, M. Meineri3, E. Hartick1, 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. Lin1, 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

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

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. Raz², 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, CHU Liege, Liege, Belgium, ⁴Anesthesiology, University of Aachen, Aachen, Germany, ⁵Anesthesiology, 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. Kosky², L. B. Hemmer³, J. F. Bebawy², M. Tate⁴, D. K. Gupta⁵, A. Koht⁶

¹Anesthesiology, Northwestern Memorial Hospital, Chicago, Illinois, ²Anesthesiology, Northwestern University, Chicago, Illinois, ³Neurological Surgery, Northwestern University Feinberg School of Medicine, Chicago, Illinois, ⁴Anesthesiology, Duke University Medical Center, Durham, North Carolina

**PR03-46**

**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. Sivanesan³, Y. F. Rodriguez-Blanco⁴, C. Su⁵, K. Candiotti⁶

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. Salles³, 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. Freed¹, A. S. Landas¹, K. DiDonato², P. P. Palmer³

¹Engineering, AcelRx Pharmaceuticals, Redwood City, California, ²Quality Assurance, AcelRx Pharmaceuticals, Redwood City, California, ³Medical Affairs, AcelRx 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

**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. Elmira Lazo¹, J. Friedman¹, O. Durra¹, P. F. White²
¹Anesthesiology, Cedars Sinai Medical Center, Los Angeles, California,
²Anesthesiology, White Mountain Institute, Los Altos, California

**PR03-47**

**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 TRANSCRANIAL LUNG CRYOBIOPSY

E. M. Camporesi¹, G. Kretz², D. DiNuoscope³, P. H. Dalvi⁴, M. Rumbak⁵, D. Mangar⁶
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. Searles³, J. Orteleva³, 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

**PR03-48**

**S-234** IMPACT OF SURGICAL SPECIAL CARE UNITS: A SYSTEMATIC REVIEW

N. Mendis¹, G. M. Hamilton¹, D. J. McIsaac², D. Fergusson³, H. Wunsch², A. Turgeon³, M. M. Lalub
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. Denisuk, 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. Burnett4, C. A. Hagberg2

1Anesthesiology and Neurosurgery, The University of Texas Health Science Center at Houston (UTH Health) McGovern Medical School, Houston, Texas, 2Anesthesiology, The University of Texas Health Science Center at Houston (UTH Health) McGovern Medical School, Houston, Texas, 3Neurobiology and Anatomy, The University of Texas Health Science Center at Houston (UTH Health) 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

1Anesthesiology, 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. Kanazawa3, N. Shioji4, H. Morimatsu5

1Department of Anesthesiology and Resuscitology, Okayama University Hospital, Okayama, Japan, 2Department of Anesthesiology and Oncological Pain, Fukuyama City Hospital, Fukuyama-shi, Japan

**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. Chinnakotta3, S. Rao4, C. Murugesan4, K. G. Belani5

1Medical School, University of Minnesota, Minneapolis, Minnesota, 2Pediatric Surgery, Narayana Health, Bangalore, India, 3Surgery, University of Minnesota, Minneapolis, Minnesota, 4Anesthesiology 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
Monday, May 23  ■  Moderated Poster Discussion Sessions

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

**S-354**  BATTERY DURATION OF A TRANSPORT VENTILATOR WITH OXYGEN CONCENTRATOR

D. F. Szpisjak¹, J. O’Neil³, 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


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. Mendoza³, 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

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**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. Eisenried⁴, A. Akhbardeh⁵, D. C. Yeomans⁶, A. Z. Tzabazis⁴

⁴Anästhesiologie, Klinik für Anästhesiologie, Erlangen, Germany, ⁵Johns Hopkins University, Baltimore, Maryland, ⁶Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Stanford, California, ⁷Anesthesiology, Perioperative and Pain Medicine, Stanford University, Stanford, California
Medically Challenging Cases ePosters

**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

**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

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 VALLECCULAR 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. Aboolkasem, 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

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 GLUCOSE LIKE 2 INHIBITORS AND POST OPERATIVE EUGLYCEMIC DIABETIC KETOACIDOSIS
K. L. Hurley¹, S. Noel², M. Ioffe³, R. Vaskul³
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. Astrafi², K. Candioti³, Y. F. Rodriguez-Blanco⁴
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**MC-156** CAROTID BODY PARAGANGLIOMA 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. LaKamp²
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Medically Challenging Cases ePosters

MC03-25, continued

MC-158 ANTI PSYCHOTIC MEDICATIONS AND REFRACTORY HYPOTENSION DURING ANESTHESIA-CAN BIS MONITOR HELP?

R. Govindarajan1, C. Foster2, D. A. Livingstone3, A. J. Hendrak4, N. Parikh5, M. John6, J. Spallina7
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, Bronx, New York,
6Surgery, Bronx-Lebanon Hospital Center, New York, New York

MC-162 ANAESTHETIC IMPLICATIONS IN TRANS-ORAL HEMITHYROIDECTOMY

S. Singh
Anaesthesiology, 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. Scher†, A. C. Ruskin‡
1Anesthesiology, New York University School of Medicine, New York, New York,
2Anesthesiology, University of Chicago School of Medicine, Chicago, Illinois

MC03-26

Medically Challenging Cases 26
Abstracts in Poster Discussion Rounds: MC-159 – MC-164
1:00 pm - 2:30 pm Monitor 2

MC-159 ANESTHESIA FOR EMERGENCY SURGERY WITH CO-EXISTING BILATERAL PULMONARY EMBOLISM

R. Govindarajan†, C. Foster§, D. A. Livingstone∥, M. Pasamba∥, M. Guglielmi¶, D. Morel∥
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,
4Oral and Maxillofacial Surgery, Bronx Lebanon Hospital, Bronx, New York,
5Oral and Maxillofacial Surgery, Montefiore Medical Center, Bronx, New York

MC-165 NEURAXIAL ANESTHETIC MANAGEMENT IN A PREGNANT PATIENT WITH REPAIRED TETHERED CORD SYNDROME

K. Price, T. J. Vemon, P. Shapiro, T. Vogel
Anesthesiology, Allegheny Health Network, Pittsburgh, Pennsylvania

MC03-27

Medically Challenging Cases 27
Abstracts in Poster Discussion Rounds: MC-165 – MC-171
1:00 pm - 2:30 pm Monitor 3

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-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-161 WELL LEG COMPARTMENT SYNDROME: A MEDICALLY CHALLENGING CASE

J. Hackett†, J. Aronsohn‡, A. Gorgy‡
1Anesthesiology, Hofstra North Shore-LIJ, Manhasset, New York,
2Department of Anesthesiology, NS-LIJ Health System, New Hyde Park, New York

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. Ruvolo⁵

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**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 – Me, 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 HYPERSONNOLENCE 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

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Medically Challenging Cases 28
1:00 pm - 2:30 pm  Monitor 1

**MCCC03-28**

Poster Moderator: J. G. Charchaffieh, MD, Yale University, New Haven, Connecticut

**MC-173**

ONSET OF PARALYSIS 48 HOURS AFTER FAILED SPINAL ANESTHESIA!

M. Rhee, R. Priëlipp
Anesthesiology, University of Minnesota, Minneapolis, Minnesota
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 MEPROMIDINE
A. Yap1, B. R. Monroe2, W. C. Paganelli1, R. W. Yamelli1
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, O. 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
P. S. Adams1, M. Zahid2, O. Khalifa2, C. W. Lo2
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. Ahumada1, A. F. Simpao4, A. Jawad5, M. A. Rehman4, J. A. Galvez5
Monday, May 23    Moderated Poster Discussion Sessions

Scholars’ ePosters

**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. Elzamzamy, A. Attaallah, M. C. Vallejo
Department of Anesthesiology, West Virginia University School of Medicine, Morgantown, West Virginia

**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. Terekhov1, J. M. Ehrenfeld2
1Department of Anesthesiology, Vanderbilt University, Nashville, Tennessee, 2Departments of Anesthesiology and Biomedical Informatics, Vanderbilt University, Nashville, Tennessee

**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
Department of Anesthesiology and Intensive Care, Nizam’s Institute of Medical Sciences, Hyderabad, India

**S-448**
GI ENDOSCOPY INSUFFLATING GAS PRESSURE: HOW REGULATED IS THE REGULATOR?

A. Bursian1, N. Gravenstein1, P. V. Draganov2, J. D. White1
1Anesthesiology, University of Florida, Gainesville, Florida, 2Internal Medicine, University of Florida, Gainesville, Florida

**S-450**
PSYCHOMETRIC VALIDATION OF THE NURSING CONFIDENCE IN MANAGING SEDATION COMPLICATIONS SCALE

A. W. Conway1, J. R. Sutherland2
1Institute of Health and Biomedical Innovation, Queensland University of Technology, Kelvin Grove, Australia, 2Department of Anaesthesia, Mid North Coast LHD, Bonville, Australia

**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. Pascual2, J. Gutsche1, L. J. Di Taranti1, S. Buddai1, F. Barg1, L. Fleisher2
1Department of Anesthesiology and Critical Care, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, 2Department of Family Medicine and Community Health; Department of Anesthesiology and Critical Care, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania

**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 Taranti2, M. B. Lane-Fall3
1Department of Anesthesiology & Critical Care, University of Pennsylvania Health System, Philadelphia, Pennsylvania, 2Department of Anesthesiology and Critical Care, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania, 3Department of Anesthesiology and Critical Care, University of Penn Perelman School of Medicine, Philadelphia, Pennsylvania
Scholars’ ePosters

SCH03-13, continued

S-424  SURVEYING ICU NURSES REGARDING PERSPECTIVES ON PATIENT COMMUNICATION
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

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
1Anesthesiology, University of Kansas, Wichita, Kansas, 2Anesthesiology/ Critical Care, University of Kansas-Wichita, Wichita, Kansas, 3School of Medicine, University of Kansas, Wichita, Kansas

S-427  EFFECTIVENESS AND EFFICIENCY OF HEMORRHAGIC HYPOVOLEMIA FLUID RESUSCITATION BETWEEN STANDARD OF CARE PRACTICE AND AUTOMATED STRATEGIES
N. Ribeiro Marques1, J. Wolf1, S. Toy2, R. Voigt3, M. Salter4, G. Kramer5, M. Kinsky6
1Anesthesiology, University of Texas Medical Branch, Galveston, Texas, 2Engineering, Sparx Engineering, Manvel, Texas, 3Anesthesiology, University of Texas Medical Branch, Galveston, Texas, 4Anesthesiology, University of Texas Medical Branch, Galveston, Texas, 5Department of Anesthesia, University of Toronto and Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, 6Department of Human Biology, University of Toronto, Toronto, Ontario, Canada

S-433  A NOVEL TREATMENT FOR MEMORY IMPAIRMENT AFTER CONCUSSION IN MICE
S. Avramescu1, H. Sheng2, D. Wang3, B. A. Orser4
1Department of Anesthesia, University of Toronto and Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, 2Department of Human Biology, University of Toronto, Toronto, Ontario, Canada, 3Department of Physiology, University of Toronto, Toronto, Ontario, Canada, 4Department of Anesthesiology and Physiology, University of Toronto, Ontario, Ontario, Canada

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
1Anesthesiology, University of Pittsburgh, Pittsburgh, Pennsylvania, 2Psychology, University of Pittsburgh, Pittsburgh, Pennsylvania, 3Psychology, Carnegie Mellon University, Pittsburgh, Pennsylvania

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
1Anesthesiology, Duke University Medical Center, Durham, North Carolina, 2Psychiatry and Behavioral Medicine, Duke University Medical Center, Durham, North Carolina, 3Trinity College of Arts and Sciences, Duke University, Durham, North Carolina, 4Pulmonary Medicine, Duke University Medical Center, Durham, North Carolina

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 OPTOGENTIC ACTIVATION OF THE LOCUS COERULEUS AND EVOKE AROUSAL AND ACTIVITY IN MICE
A. J. Norris1, L. Xia2, S. Park2, G. Shin2, J. A. Rogers2, M. Bruchas2
1Anesthesiology, Washington University in St. Louis, St. Louis, Missouri, 2Materials Science and Engineering, Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign, Urbana, Illinois

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
Y. R. Shao1, K. J. Pavone2, O. Akeju2, E. N. Brown2, P. Purdon2
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