

Final Program



IARS 2013 Annual Meeting

*Advancing Our Specialty Through
Evidence-Informed Medicine*

International Science Symposium

The Role of Mitochondria in the Perioperative Period

May 4 to May 7

Sheraton Hotel & Marina • San Diego, California



IARS

International Anesthesia Research Society

It's nearly time to...

PARTY *with a* **PURPOSE**

AT THE 2013 ANNUAL MEETING

• **Sunday, May 5, 2013**

6:30pm – 10:00pm (*Black Tie Optional*)

Sheraton San Diego Hotel & Marina

1380 Harbor Island Drive, San Diego, CA

Dr. Steve Shafer and Dr. Michael Roizen will reprise their roles as the evening's Emcees.

Sean Kelly, Comedian and Host of *Storage Hunters* will lead the auction festivities.

Purchase your ticket today for only \$100

when you register for the Annual Meeting or reserve a table of 10 for \$1,000.

Enjoy a fun-filled evening to include:

- Opening Networking Reception with Hosted Bar
- Dinner and Dessert
- Live Music & Dancing
- Silent Auction featuring exciting once-in-a-lifetime trips and vacations!



IARS

International Anesthesia Research Society



100% of donations raised at this event fund innovative IARS and SmartTots anesthesia research projects. Contribute today and be recognized as a supporter of ground-breaking anesthesia research.

For more information visit IARS.org/2013Party or call (415) 296-6914

General Information



IARS

International Anesthesia Research Society

EXECUTIVE COMMITTEE

May 4, 2013

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Shinjuku, Tokyo, Japan

Welcome to San Diego and the International Anesthesia Research Society 2013 Annual Meeting! We know you will find the learning opportunities as energizing as the location with its 70 miles of beaches and warm climate. Our Annual Meeting Program Committee, led by Dr. Keith A. (Tony) Jones and Dr. Santhanam Suresh, have created a robust program filled with multiple occasions to discuss cutting-edge topics, learn from and meet with world-renowned anesthesia educators, and network with colleagues.

Annual Meeting highlights include:

Saturday, May 4

The T.H. Seldon Memorial Lecture will kick off the week's events at 8:00 am with a thought-provoking presentation by Dr. David M. Gaba on *Simulation – Another (Unsung) Gift to Medicine from Anesthesiology*. Saturday will also feature a session specifically designed for residents, *The Future is in Your Pocket!*, complete with a Resident Oral Competition, Panel Discussion and Ultrasound Workshop.

Sunday, May 5

At the sixth annual International Science Symposium, explore the importance of *The Role of Mitochondria in the Perioperative Period*.

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Monday, May 6

The top scoring abstracts from over 400 abstract submissions will compete at the *Abstract Awards Session* which includes the *Best of Meeting Awards* and *Kosaka Awards*.

Tuesday, May 7

Make sure to check out Tuesday's sessions before you head home. The morning is packed with more valuable content presented in four Problem-Based Learning Discussion sessions, three Review Course Lectures, two Panels and a hands-on Workshop.

Take a break from the learning and join your peers, colleagues and the leadership of the IARS and *Anesthesia & Analgesia* Journal at two special events – *Meet the Leadership Reception* on Saturday, May 4, and *Party with a Purpose*, a fundraiser dinner to support anesthesia research, on Sunday, May 5. The *Meet the Leadership Reception* is complimentary for meeting attendees. Tickets for *Party with a Purpose* may be purchased at the Registration Desk.

Be sure to also visit the Tabletop Exhibit Area for the latest advances in technology, equipment, pharmaceutical services, and medical publications.

We are confident that you will find this time together rewarding and gratifying while immersing yourself in the idyllic surroundings. Welcome to San Diego!

Sincerely,

Debra A. Schwinn, MD
Chair, IARS Board of Trustees

EXECUTIVE DIRECTOR

T. A. Cooper
San Francisco, CA

Welcome to the IARS 2013 Annual Meeting and the City of San Diego!

Over the next four days, take advantage of the wide variety of learning opportunities, featuring 18 Review Course Lectures, 17 Panels, 16 Problem-Based Learning Discussions, 4 Interactive Workshops, and more than 350 moderated abstract poster sessions.

Must-Attend Sessions Include:

- ☀ **T.H. Seldon Memorial Lecture • Saturday, May 4 • 8:00-9:30 am**
Learn about *Simulation – Another (Unsung) Gift to Medicine from Anesthesiology* with Opening Session
Speaker David M. Gaba, MD.
- ☀ **Resident Symposium • Saturday, May 4 • 2:00-6:00 pm**
The Future is in Your Pocket! is specifically developed for residents, complete with a Resident Oral Competition, Panel Discussion and Ultrasound Workshop.
- ☀ **International Science Symposium • Sunday, May 5 • 8:00-11:00 am**
Focus on the importance of mitochondrial function in perioperative medicine at *The Role of Mitochondria in the Perioperative Period*.
- ☀ **Abstract Award Session • Monday, May 6 • 11:30 am-1:30 pm**
The top abstracts compete for honors during the *Best of Meeting Awards* and *Kosaka Awards*.
- ☀ **Special Events at the IARS Annual Meeting**
Make time to relax and mingle with peers, colleagues and the leadership of the IARS and *Anesthesia & Analgesia* Journal at two special events – *Meet the Leadership Reception* and *Party with a Purpose*, a fundraising dinner and dance to support anesthesia research.

The *Meet the Leadership Reception* takes place Saturday, May 4, from 6:30 to 7:30 pm, and is open to all attendees. The *Party with a Purpose* fundraiser occurs on Sunday, May 5, from 6:30 to 10:00 pm, and tickets may be purchased at the Registration Desk.

We hope you will find this time together energizing and that the knowledge you gain will prove extremely valuable in the future. Enjoy!

San Diego by the Numbers

4,000 Number of animals at the San Diego Zoo, including the first baby panda born in the Western Hemisphere, Hua Mei

15 Number of museums

18 Number of incorporated cities

8 Number ranked in city size in the United States

60 Number of rides at the LEGOLAND and SeaLife Aquarium and Water Park combined

92 Number of golf courses

40 Number of craft breweries and growing

70 Number of miles of beaches

41.3% Percentage of San Diego's workforce over 25 that has a bachelor's degree or higher



1888 The year that the Hotel del Coronado, the oldest wooden structure in the United States, was built

1 Number ranked for its urban cultural parks in the United States

2 Number ranked in city size in California

200 Number of cruise ships docked in the San Diego Harbor

70.5 Number of degrees Fahrenheit for the average daily temperature

1863 The year that the oldest, working ship, "The Star of India," was built and made the San Diego Harbor its home

22 Number of acres of SeaWorld San Diego's marine zoological park

6,400 Approximate number of restaurants

8 Number of square miles in the San Diego Bay

1542 The year that Portuguese explorer Juan Cabrillo cruised into the San Diego Bay

LOCATION

IARS 2013 Annual Meeting Headquarter Hotel

The Annual Meeting sessions take place in the lobby and lower levels of the **Marina Tower** at the **Sheraton San Diego Hotel & Marina**. A session room assignment locator is available at the Registration Desk. The **Party with a Purpose** fundraiser will be held in the Bay Tower. Attendees may pick up a shuttle in the lobbies of each tower adjacent to the bell stand for transportation between the Marina and Bay towers..

Sheraton San Diego Hotel & Marina

1380 Harbor Island Drive
San Diego, California 92101
t 619-291-2900
f 619-692-2337

REGISTRATION

Registration Area

Your personalized registration materials will be available for pick up at the Registration Desk (Spinnaker Room, Lobby Level, Marina Tower). Onsite registration is also welcome here.

Registration is available during the following hours:

Friday, May 3 1:00 pm – 5:00 pm
Saturday, May 4 6:00 am – 5:30 pm
Sunday, May 5 6:00 am – 5:00 pm
Monday, May 6 6:30 am – 5:00 pm
Tuesday, May 7 6:30 am – 11:00 am

The Annual Meeting registration fee includes access to the International Science Symposium, the T.H. Seldon Memorial Lecture, Review Course Lectures, Panels, Moderated Poster Discussion Rounds, and Tabletop Exhibits. Problem-Based Learning Discussions (PBLDs) and Workshops are limited seating and an additional non-refundable fee. If seating is still available, tickets may be purchased at the Registration Desk.

Registration materials will include a printed copy of the IARS 2013 Final Program and an online (www.iars.org) copy of the Preliminary Abstract Supplement, and Review Course Lecture Book. These documents will also be posted to the IARS website. The Abstract Supplement will be updated and posted in final format to the IARS website 45 days after the Annual Meeting and will be available to IARS members and IARS 2013 Annual Meeting attendees.

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.

EXHIBITS

Technical Tabletop Exhibits Area

The Technical Tabletop Exhibits are located in the Harbor Island and Grand Ballroom foyers, Lobby Level, Marina Tower. In addition, please join us for the **Meet the Leadership Reception** on Saturday, May 4, from 6:30 to 7:30 pm.

The Tabletop Exhibits are open during the following hours:

Saturday, May 4 7:00 am – 2:00 pm
Meet the Leadership Reception 6:30 pm – 7:30 pm
Sunday, May 5 7:00 am – 2:00 pm
Monday, May 6 7:00 am – 2:00 pm

Scientific & Educational Exhibits Area

The Scientific and Educational Exhibits are located in the Grande Ballroom C, Lobby Level, Marina Tower.

The Scientific Exhibits are open during the following hours:

Saturday, May 4 1:30 pm – 6:00 pm
Sunday, May 5 8:00 am – 5:00 pm
Monday, May 6 8:00 am – 1:00 pm

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 features publications, education, research grant opportunities, and other resources available to IARS members as a benefit of membership. The IARS Member Resource Center is located in the Bayview Foyer between the Harbor Island and Grande Ballrooms on the Lobby Level of the Marina Tower.

Internet Availability

Complimentary wireless internet is available in the Exhibits Area and all meeting rooms within the hotel. Open a browser and please choose the network labeled "PSAV_Event_Solutions." When prompted for an access code, enter "IARS13". Please no streaming or video downloads.

Internet Café

A complimentary Internet Café will be provided for attendees in the Exhibits Area in the Bayview Foyer. Please limit your time to ten minutes per use to allow all registrants access.

Mobile App

Download our new Annual Meeting app, IARS2013, available for iPad, iPhone and Android. With IARS2013, build your unique attendee schedule, search education sessions and special events, record and share session notes, browse and customize your exhibitor list, and receive meeting alerts and news directly from the app. Please contact iars13@iars.org with any questions.

General Information

Online CME

Visit the Internet Café located in the Bayview Foyer to access IARS CME. You may record your credits online at the meeting. An instruction sheet is included with your registration materials. Please note all CME will be managed online and printers are not available onsite.

Twitter

Share your experiences and thoughts during the Annual Meeting by tweeting and using the hashtag #IARS2013. You can also follow the official IARS Annual Meeting Twitter feed (@IARS2013) at <https://twitter.com/IARS2013>.

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).



No Smoking

Smoking is not permitted in the hotel or at any IARS-sponsored events. We respectfully request that you abide by our smoke-free policy.



Photography Release

The IARS plans to take photographs at the Annual Meeting 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 2013 Annual Meeting, you grant the IARS the right to use your name, photograph, and biography for such purposes.

Special Needs

If you have a special need or require specific accommodations in order to fully participate in the Annual Meeting, please see the IARS staff at the Registration Desk.

RESTAURANTS

All restaurants in the Sheraton are located in the lobby of the Marina Tower.

Harbor's Edge Restaurant

Open for breakfast, lunch and dinner

Daily 6:30 am – 1:00 am
5:00 pm – 10:00 pm

Quinn's

Open for snacks and dinner

Daily 5:30 pm – 1:00 pm
Saturday & Sunday 10:00 am – 2:00 pm

Starbucks

Open for coffee and snacks

Daily 5:30 am – 5:30 pm

Tapatini – Tapas & Martini Bar

Open for dinner

Daily 5:00 pm – 10:00 pm

IARS 2013 ANNUAL MEETING PROGRAM CO-CHAIRS

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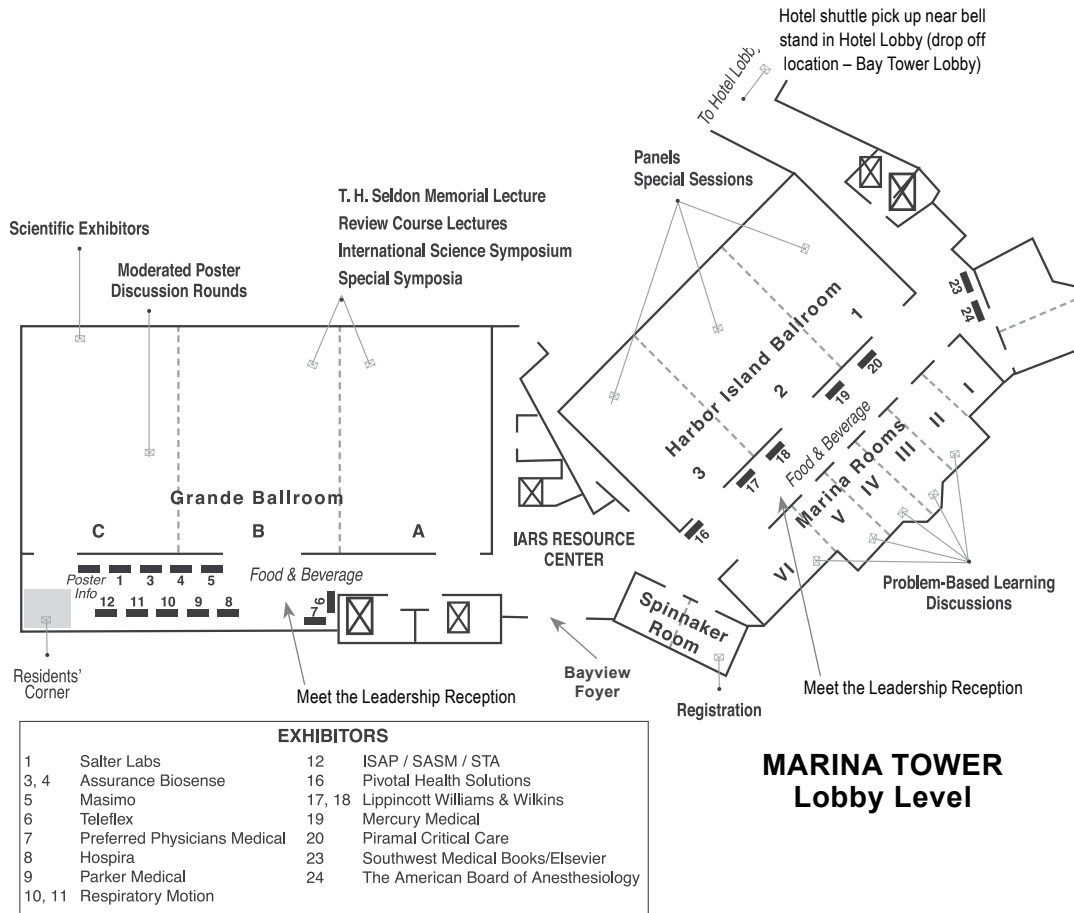
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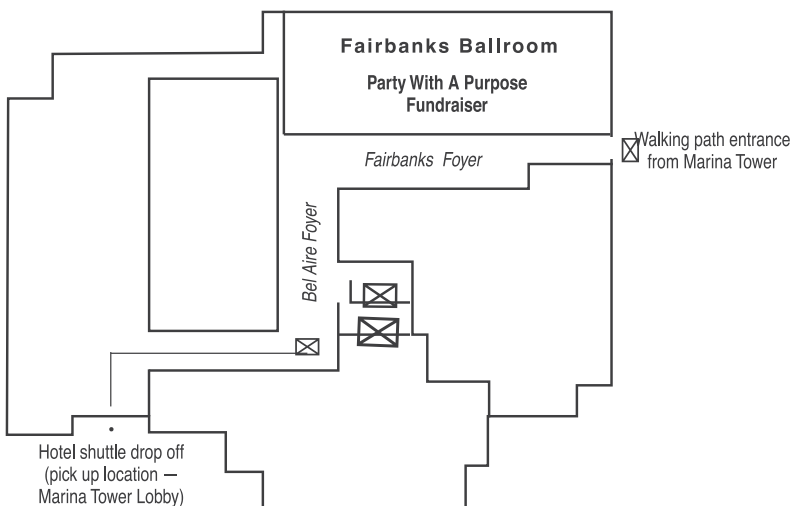
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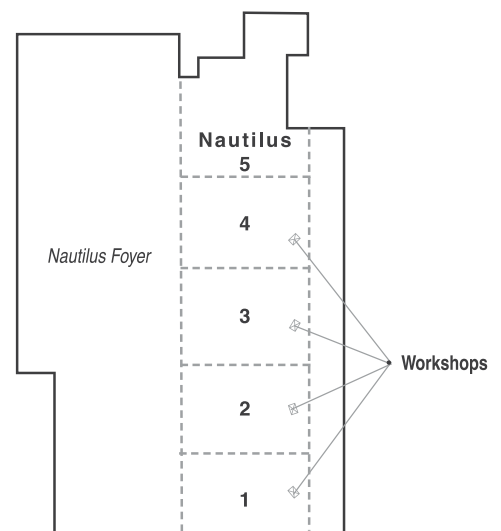
IARS 2013 Annual Meeting Floor Plan San Diego Sheraton Hotel



BAY TOWER Lobby Level



MARINA TOWER Lower Level



International Anesthesia Research Society 2013 Annual Meeting

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 IARS 2013 Annual Meeting is to address gaps in anesthesiology practice by providing clinically-oriented and scientifically-based educational activities that will improve competence and performance in the anesthesiology specialty.

Target Audience

The IARS 2013 Annual Meeting CME activity is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists in training, anesthesia researchers, 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 participation in this CME activity, learners should be able to:

- Recognize the current state of emerging knowledge and practice patterns and assess the relevance for their professional practice;
- Incorporate new knowledge from advances in anesthesiology practice into their professional practice areas;
- Recognize gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

Accreditation Statement

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

American Medical Association (AMA) Credit Designation Statement

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

Claiming CME Credit

The IARS will provide online program evaluation and session tracking to support claiming CME credit. In compliance with ACCME guidelines, credit may be claimed beginning on the day following completion of a session. Physicians may complete session evaluations online during the IARS 2013 Annual Meeting or after the event. Visit the Internet Café to access the online CME evaluation at the meeting. After the meeting, credit for the IARS 2013 Annual Meeting can be claimed online at www.iars.org/congress.

Maintenance of Certification in Anesthesiology

If you wish to have your credits from this educational activity reported to the ABA for the Maintenance of Certification in Anesthesiology Program® (MOCA®), you may enter your ABA ID, after completing your session evaluations, into the online credit reporting system mentioned above. The IARS will forward your CME credits to the ABA following the Annual Meeting on a quarterly basis (March, June, September and December).

Disclosures

The IARS complies with ACCME Essential Areas, Standards, and Policies regarding industry support of CME activities. The IARS has implemented policies and practices with respect to the planning, implementation, and presentation of this activity to identify and resolve potential conflicts of interest for all persons in a position to control content. Disclosure information is provided with your attendee materials.

About the IARS

The IARS is anesthesiology's non-political organization focused on providing scientific and evidence-based safe anesthesia care. Founded in 1922, the IARS contributes more than \$1 million annually to fund anesthesia research and provides a forum for leaders in anesthesia research to share information and ideas. The Society publishes the *Anesthesia & Analgesia* Journal and sponsors the SmartTots initiative in partnership with the FDA. Membership includes physicians and others engaged in anesthesia-related practice, research, and training worldwide.

Educational Sessions

8:00 am – 9:30 am
Opening General Session

T.H. Seldon Memorial Lecture
*Simulation – Another (Unsung) Gift to
Medicine from Anesthesiology*

David M. Gaba, MD

*Associate Dean for Immersive and
Simulation-Based Learning and
Professor of Anesthesia
Stanford University
Stanford, California*

*Staff Anesthesiologist and Co-Director,
Patient Simulation Center of Innovation
VA Palo Alto Health Care System
Palo Alto, California*

DAVID M. GABA, MD holds a BS in Biomedical Engineering from Northwestern University and an MD from Yale University. He is Associate Dean for Immersive and Simulation-Based Learning and Professor of Anesthesia (with tenure) at Stanford University School of Medicine. He has been a staff anesthesiologist at VA Palo Alto for 29 years, and is the founding director (now co-director) of its Patient Simulation Center of Innovation since 1995 – this center is now the VA SimLEARN satellite. Dr. Gaba's laboratory is a pioneer in applying organizational safety theory to healthcare. Dr. Gaba is the inventor of the modern full-body patient simulator and in 1990 first introduced Crew Resource Management training from aviation to healthcare. Dr. Gaba is an author on over 115 original articles and editorials, 22 book chapters, and one influential book: *Crisis Management in Anesthesiology*. He is a current and founding board member of both the Society for Simulation in Healthcare (SSH) and the Advanced Initiatives on Medical Simulation. In addition to serving on various journal editorial boards, Dr. Gaba is the current and founding Editor-in-Chief of the journal *Simulation in Healthcare*, the only indexed peer-reviewed journal on simulation, published by SSH. Dr. Gaba was awarded the 2003 David M. Worthen Award from the Department of Veterans Affairs, the 2007 Teaching Achievement Recognition Award



from the International Anesthesia Research Society, and the 2011 (inaugural) Veterans Affairs Under Secretary for Health Award for Excellence in Clinical Simulation Training, Education and Research. In his spare time, he rides a short wheelbase recumbent road bicycle, plays golf and bridge, and avidly follows developments in physics and space sciences. He used to do many other interesting things including epee fencing, flying, scuba diving, rock climbing, skiing and glass blowing but is currently retired from all of those activities.

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.

Daily Schedule At-A-Glance

6:00 am – 5:30 pm	Registration
7:00 am – 8:00 am	Problem-Based Learning Discussions
8:00 am – 8:30 am	Welcome and Opening Remarks
8:30 am – 9:30 am	Opening General Session T.H. Seldon Memorial Lecture <i>Simulation – Another (Unsung) Gift to Medicine from Anesthesiology</i>
10:00 am – 1:00 pm	Symposium: <i>Evidence-Based Decision Making and Knowledge Translation in Health Technology Assessment</i>
1:30 pm – 6:00 pm	Concurrent Education Sessions <ul style="list-style-type: none"> • Review Course Lectures • Panels • Moderated Poster Discussion Rounds
2:00 pm – 6:00 pm	Resident Symposium: <i>The Future is in Your Pocket!</i> <ul style="list-style-type: none"> • Resident Oral Competition • Panel Discussion • Resident Ultrasound Workshop
6:30 pm – 7:30 pm	Meet the Leadership Reception

7:00 am - 2:00 pm Tabletop Exhibits



PBLD-02 • 7:00 – 8:00 am

ADVENTURES IN TIVA FOR CASES INVOLVING NEUROMONITORING

MODERATOR: Thomas K. Henthorn, MD, *Professor and Chair, Department of Anesthesiology, University of Colorado School of Medicine, Aurora, Colorado*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe how context-sensitive decrement times other than half-time affect the expected time to emergence from anesthesia; (2) Describe in quantitative terms how various centrally acting drugs contribute to the unconscious state; and (3) Use pharmacokinetic readily available simulators (e.g. iPhone app) in the clinical setting to predict time to emergence.



PBLD-03 • 7:00 – 8:00 am

IMPLEMENTING AN ANESTHESIA INFORMATION MANAGEMENT SYSTEM (AIMS)

MODERATOR: Keith J. Ruskin, MD, *Professor of Anesthesiology and Neurosurgery, Director, Neuroanesthesia, Yale University School of Medicine, New Haven, Connecticut*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Determine requirements to include in an AIMS contract; (2) Identify must-have features vs. desirable but not essential features for their system; (3) Discuss ways to obtain information about the system from actual users; (4) Review installation options, including a discussion on possible third party involvement (e.g. for medical equipment interfaces); (5) Plan for system training (e.g. who to choose) including identifying and training the “Superusers”; and (6) Determine how to “go live” with the new system. Will you phase it in slowly, or switch all of the operating rooms over at once (“big bang”)? What are the advantages of each strategy?



PBLD-04 • 7:00 – 8:00 am

MANAGEMENT OF FOREIGN BODY ASPIRATION – WHEN IS CARDIOPULMONARY BYPASS INDICATED?

MODERATOR: Calvin Kuan, MD, FAAP, *Clinical Associate Professor, Pediatric Cardiac Anesthesia, Lucile Packard Children’s Hospital, Stanford University Medical Center, Pediatric Critical Care, Children’s Hospital and Research Center at Oakland, Stanford, California*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Develop an anesthetic management plan for a child with a foreign body aspiration in severe respiratory distress; (2) Recognize the clinical issues of sand aspiration; (3) Recognize the indications for cardiopulmonary bypass; and (4) Develop an intraoperative anesthetic management plan for a child with severe airway injury.

★ PROBLEM-BASED LEARNING DISCUSSIONS



PBLD-01 • 7:00 – 8:00 am

WHAT THE ANESTHESIOLOGIST NEEDS TO KNOW ABOUT BLOOD SALVAGE

MODERATOR: Jonathan H. Waters, MD, *Professor of Anesthesiology and Bioengineering, University of Pittsburgh, Pittsburgh, Pennsylvania*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Recognize dangerous behaviors associated with blood salvage processing; (2) Discuss pros and cons of blood salvage contraindications; and (3) Be conversant on the legal risks associated with blood salvage.

10:00 am – 1:00 pm
Symposium

***Evidence-Based Decision Making and Knowledge Translation
in Health Technology Assessment***

Symposium Moderator

Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS, CCPE

*Distinguished University Professor & Chair/Chief
Department of Anesthesia and Perioperative Medicine
London Health Sciences Centre and
St. Joseph's Healthcare, Western University
Medical Director, MEDICI Centre
London, Ontario, Canada*

Symposium Presenters

P.J. Devereaux, MD, PhD, FRCPC

*Associate Professor
Department of Clinical Epidemiology and
Biostatistics
McMaster University
Principal Investigator of the POISE I,
POISE II and VISION Trials
Hamilton, Ontario, Canada*

Janet Martin, PharmD, MSc (HTA)

*Director, Centre for Medical Evidence, Decision
Integrity & Clinical Impact (MEDICI);
Assistant Professor, Department of Anesthesia
and Perioperative Medicine and Department of
Epidemiology and Biostatistics;
Schulich School of Medicine and Dentistry;
Western University
London, Ontario, Canada*

Learner Objectives:

After participating in this activity, the learner will be able to:

- (1) Compare and contrast intuitive decision making (bias-riddled) versus evidence-based decision making (bias-minimized);
- (2) Apply the techniques for finding, filtering, and applying best evidence for individual patient-level decision making and for policy making;
- (3) Determine how to navigate decision making when existing evidence appears to be contradictory, using examples from anesthesia, critical care and surgery (e.g. volume expanders, antifibrinolytics, BIS/neuro/oxygen monitors, perioperative medications and minimally-invasive surgery); and
- (4) Identify specific areas for anesthesiologists to contribute in knowledge synthesis and translation, to develop improved tools and techniques for evidence-based decision making in anesthesia and perioperative medicine.

★ REVIEW COURSE LECTURES

RCL-01 • 2:00 – 2:55 pm

RAPID RECOVERY FROM AMBULATORY SURGERY: THE NEW PARADIGM IN AMBULATORY ANESTHESIA

PRESENTER: Girish P. Joshi, MB, BS, MD, FFARCSI, *Professor of Anesthesiology and Pain Management, Director of Perioperative Medicine and Ambulatory Anesthesia, University of Texas Southwestern Medical Center, Dallas, Texas*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the need for rapid recovery after ambulatory surgery; (2) Learn the advantages and disadvantages of commonly used anesthetic techniques; (3) Identify the appropriate use of opioids; (4) Explain the strategies to prevent postoperative residual paralysis; and (5) Appreciate the importance of pain and PONV prophylaxis in achieving rapid recovery.

RCL-02 • 3:00 – 3:55 pm

PERIOPERATIVE ISCHEMIA IN HIGH-RISK NON-CARDIAC SURGERY: POISE I-II AND VISION TRIALS

PRESENTER: P. J. Devereaux, MD, PhD, FRCPC, *Associate Professor, Department of Clinical Epidemiology and Biostatistics, McMaster University, Principal Investigator of the POISE I, POISE II and VISION Trials, Hamilton, Ontario, Canada*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the role for monitoring troponin measurements after noncardiac surgery; (2) Discuss the prognostic relevance of myocardial injury after noncardiac surgery; (3) Discuss the evidence regarding strategies to prevent major perioperative cardiovascular events; and (4) Review strategies to manage perioperative vascular complications.

RCL-03 • 4:00 – 4:55 pm

SIZE MATTERS: PERIOPERATIVE MANAGEMENT OF THE MORBIDLY OBESE

PRESENTER: Frances Chung, MBBS, FRCPC, *Professor, Department of Anesthesiology, University of Toronto, Medical Director, Ambulatory Surgical Unit and Combined Surgical Unit, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the different aspects of anesthetic challenges in anesthesia care to the morbidly obese patients especially the airway, and pharmacology; and (2) Optimize the perioperative ventilation strategy and postoperative care.

RCL-04 • 5:00 – 5:55 pm

OBSTETRIC BLEEDING – IS IT PREVENTABLE?

PRESENTER: Cynthia A. Wong, MD, *Professor and Vice Chair, Department of Anesthesiology, Northwestern University's Feinberg School of Medicine, Chicago, Illinois*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Cite the incidence of postpartum hemorrhage and maternal morbidity and mortality associated with postpartum hemorrhage in the United States and throughout the world; (2) Recommend obstetric management and blood banking strategies to prepare for anticipated and unanticipated obstetric hemorrhage; and (3) Discuss the role of protocols in the management of obstetric hemorrhage.

★ PANELS



P-01 • 1:30 – 3:00 pm

GENERAL ANESTHESIA FOR INFANTS HAVING SURGERY AND ELECTIVE PROCEDURES: IS IT SAFE?

MODERATOR: Richard C. Prielipp, MD, MBA, FCCM, *JJ Buckley Professor and Chair, Department of Anesthesiology, University of Minnesota, Minneapolis, Minnesota*

PANELISTS:

Chandra Castro, MD, *Assistant Professor and Pediatric Section Head, Department of Anesthesiology, Amplatz Children's Hospital, University of Minnesota, Minneapolis, Minnesota*

- Introduction: What is the concern?
- Is it the disease, the surgery, or the anesthetic?
- Are all anesthetics implicated or just certain ones?

Robert I. Block, PhD, *Associate Professor of Anesthesia, University of Iowa Carver College of Medicine, Iowa City, Iowa*

- What are the clinical studies?
- What are the Iowa epidemiology outcome data:
 - What are the inferences?
 - What are the confidence intervals of these data? Can risk be quantitated?
- What can we really conclude about educational testing in young children?

Tetsu (Butch) Uejima, MD, MMM, CPHRM, *Associate Professor of Anesthesiology, Northwestern University's Feinberg School of Medicine, Director Anesthesia Patient Safety and Quality, Medical Director Risk Management, Patient Safety Officer, Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois*

- What are plausible mechanisms for injury in humans?
- How are Animal vs. Human Data Alike -- or Different?
- Risk vs. Benefit: How do we find the right balance?
- Possible algorithm to mitigate the risk(s).



P-01 • 1:30 – 3:00 pm – continued

James G. Ramsay, MD, *Professor of Anesthesiology, University of California, San Francisco, California; IARS Executive Committee and Past Chair; SmartTots Steering Committee*

- What is SmartTots and what is its vision?
- How is IARS addressing research questions of neurotoxicity in infant brains?
- Review of the FDA workshop and consensus statement
- Future developments

LEARNER OBJECTIVES: After participating in this activity, the learner will: (1) Be aware of the laboratory evidence of apoptosis of GABA-based anesthetics in newborn animals; (2) Review the epidemiological evidence of twin studies and other inferential outcome investigations; (3) Describe the contribution of SmartTots to public and professional education; (4) Recognize the limits of the current data and outcomes to attribute causation; (5) Identify needs of future research questions; and (6) Provide commentary about the current FDA consensus statement.



P-02 • 3:00 – 4:30 pm

ESTABLISHING A BLOOD MANAGEMENT PROGRAM

MODERATOR: Lori Heller, MD, *University of Washington, Seattle, Washington*

PANELISTS:

★ **The Data is Clear: Transfuse with Caution. The Evidence for Blood Management in Every Hospital**

Lori Heller, MD, *Medical Director, Swedish Blood Management Program, Swedish Cardiovascular Institute, Division of Cardiac Anesthesia; Clinical Instructor, University of Washington, Seattle, Washington*

★ **How to Change Practice and Culture? Developing a Blood Management Program at Your Hospital**

Sheri Ozawa, RN, *Clinical Director of the Institute of Patient Blood Management and Bloodless Medicine and Surgery, Englewood Hospital and Medical Center, Englewood, New Jersey*

★ **Detection, Evaluation and Management of Preoperative Anemia**

Jonathan H. Waters, MD, *Professor of Anesthesiology and Bioengineering, Chief of Anesthesiology, Magee Women's Hospital of UPMC Medical Director, Blood Management Division, Biotronics, Inc., Medical Director, UPMC Patient Blood Management Program, Pittsburgh, Pennsylvania*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Define the problems with current transfusion practice in both cardiac and general surgery; (2) Describe the necessary steps in establishing a Blood Management Program; and (3) Effectively identify and capture transfusion data and measure the clinical outcomes as well as financial impact on your hospital.

P-03 • 4:30 – 6:00 pm

NEURAL MECHANISMS OF ANESTHETIC ACTION: CLINICAL IMPLICATIONS

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

PANELISTS:

★ **Intraoperative Awareness – Neurobiology and Clinical Practice**

George A. Mashour, MD, PhD, *Associate Chair for Faculty Affairs, Director, Division of Neuroanesthesiology, Assistant Professor of Anesthesiology and Neurosurgery Faculty, Neuroscience Graduate Program University of Michigan Medical School, Ann Arbor, Michigan*

★ **Reanimation from General Anesthesia: Potential Clinical Applications**

Ken Solt, MD, *Assistant Professor of Anaesthesia, Harvard Medical School, Assistant Anesthetist, Massachusetts General Hospital, Department of Anesthesia, Critical Care and Pain Medicine, Boston, Massachusetts*

★ **Clinical Electroencephalography for Anesthesiologists**

Patrick L. Purdon, PhD, *Instructor of Anaesthesia at Harvard Medical School, Assistant in Bioengineering at Massachusetts General Hospital, Department of Anesthesia, Critical Care and Pain Medicine, Boston, Massachusetts*

★ **Neuronal Mechanisms of Anesthetic Emergence**

Max B. Kelz, MD, PhD, *Assistant Professor of Anesthesiology and Critical Care, Mahoney Institute for Neurological Sciences, Center for Sleep and Circadian Neurobiology, University of Pennsylvania Perelman School of Medicine, Philadelphia, Pennsylvania*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss modern neuroscience; (2) Discuss the relevance of modern neuroscience to anesthesiology; (3) Appreciate that anesthesia is a neuroscience process although it is not viewed as such; and (4) Realize that a lot has been learned about the neuroscience of how anesthetics work and that this can be used clinically.

The sessions and presenters listed in this program are as of press time and subject to change

2:00 pm – 6:00 pm
Resident Symposium

The Future is in Your Pocket!

2:00 – 3:00 pm * * * Resident Oral Competition

The top Resident Abstract Submissions from around the world will be reviewed, judged and selected to present to a panel of judges during this Resident Oral Competition.

The top Resident author submissions to the IARS 2013 program will be joined by the Abstract Winners from the National Resident Regional Meetings to compete for a \$1,000 prize and the honor of best Resident Abstract Submission at an International Meeting.

3:00 – 4:00 pm * * * Panel Discussion

Moderator: Santhanam Suresh, MD, FAAP

*Anesthesiologist-in-Chief, Ann & Robert H. Lurie Children's Hospital of Chicago;
Professor of Anesthesiology & Pediatrics, Northwestern University's
Feinberg School of Medicine, Chicago, Illinois*

*** Welcome:**

Debra A. Schwinn, MD, Dean, Roy J. and Lucille A. Carver College of Medicine, University of Iowa, Iowa City, Iowa

*** Choosing an Academic Career**

John F. Butterworth, IV, MD, Professor and Chair, Department of Anesthesiology, VCU School of Medicine, Richmond, Virginia

*** Choosing Private Practice: The Race for the Mountain!**

Aubrey Maze, MD, FAAP, Chief Executive Officer, Valley Anesthesiology Consultants, Clinical Professor of Anesthesiology, University of Arizona, Phoenix, Arizona

*** Is a Fellowship Important for your Future?**

James P. Rathmell, MD, Chief, Division of Pain Medicine, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Associate Professor, Harvard Medical School, Boston, Massachusetts

*** Understanding Your Employment Contract**

Joseph W. Szokol, MD, JD, MBA, Vice Chairman, Department of Anesthesiology, NorthShore University HealthSystem, Evanston, Illinois, Clinical Professor of Anesthesia and Critical Care, University of Chicago Pritzker School of Medicine, Chicago, Illinois

4:00 – 6:00 pm * * * Ultrasound Workshop

Don't miss this opportunity to participate in a Resident-Only Ultrasound Workshop. Using both lecture and hands-on training (with live models and ultrasound equipment), residents will receive one-on-one instruction on the fundamentals of regional ultrasound.

Presenters:

Vincent W.S. Chan, MD, FRCPC, University of Toronto, Toronto Western Hospital, Toronto, Ontario, Canada

Andrew D. Rosenberg, MD, NYU Hospital for Joint Diseases and NYU School of Medicine, New York, New York

NavParkash S. Sandhu, MD, San Diego School of Medicine, San Diego, California

Santhanam Suresh, MD, FAAP, Ann & Robert H. Lurie Children's Hospital of Chicago and Northwestern University's Feinberg School of Medicine, Chicago, Illinois

Daily Schedule At-A-Glance

6:00 am – 5:00 pm	Registration
7:00 am – 8:00 am	Problem-Based Learning Discussions
8:00 am – 11:00 am	International Science Symposium <i>The Role of Mitochondria in the Perioperative Period</i>
8:00 am – 5:00 pm	Concurrent Education Sessions <ul style="list-style-type: none"> • Review Course Lectures • Panels • Workshops • Moderated Poster Discussion Rounds
6:30 pm – 10:00 pm	Party with a Purpose Fundraiser
7:00 am – 2:00 pm	Tabletop Exhibits



Liver Intensive Care
Group of Europe

PBLD-02 • 7:00 – 8:00 am

LIVER RESECTION IN A PATIENT WITH HEPATIC CIRRHOSIS AND ELEVATED SERUM CREATININE

MODERATOR: Gebhard Wagener, MD, *Associate Professor of Clinical Anesthesiology, Chief, Division of Vascular Anesthesia, Member, Divisions of Critical Care Medicine and Liver Transplant Anesthesia, College of Physicians and Surgeons of Columbia University, New York, New York*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the close relationship of hepatic cirrhosis and renal disease; (2) Appreciate the complications caused by renal dysfunction in patients undergoing major (hepatic) surgery; (3) Comprehend different techniques of intra-operative renal replacement therapies and their indications; and (4) Appreciate the limitations of interventions that aim to protect renal perfusion and function.



PBLD-03 • 7:00 – 8:00 am

ANESTHETIC CONSIDERATIONS IN INTERVENTIONAL TREATMENT OF SAH AND POST SAH VASOSPASM

MODERATOR: Rafi Avitsian, MD, *Section Head, Neuroanesthesia; Program Director, Neuroanesthesia Fellowship; Associate Professor of Anesthesiology, CCLCM; Anesthesiology and Neurological Institutes, Cleveland Clinic Foundation, Cleveland, Ohio*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Recognize the primary medical and interventional treatments of Subarachnoid Hemorrhage (SAH) and their important anesthetic considerations; (2) Discuss the essentials of interventional treatment for intracranial vasospasm following SAH; (3) Recognize the important anesthetic considerations of transporting critically-ill neurosurgical patients to remote anesthesia locations; and (4) Identify hemodynamic complications during intra-arterial injection of vasodilating agents.

* PROBLEM-BASED LEARNING DISCUSSIONS



PBLD-01 • 7:00 – 8:00 am

CONCERNS REGARDING FUTURE MULTIPLE GENERAL ANESTHETICS FOR ONGOING EVALUATION OF A NEWLY DIAGNOSED RETINOBLASTOMA IN A YOUNG INFANT

MODERATOR: Tetsu (Butch) Uejima, MD, MMM, CPHRM, *Associate Professor of Anesthesiology, Northwestern University's Feinberg School of Medicine, Director Anesthesia Patient Safety and Quality, Medical Director Risk Management, Patient Safety Officer, Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Approach the issue of potential neurotoxicity from a quality perspective; (2) Consider the medical legal ramifications and issues surrounding documentation; (3) Discuss the anesthetic considerations in the anesthetic management of young children undergoing multiple procedures; and (4) Consider various options for the anesthetic management of young patients who may have undergone multiple procedures.



PBLD-04 • 7:00 – 8:00 am

PERIOPERATIVE MANAGEMENT OF A MORBIDLY OBESE PATIENT SCHEDULED FOR COLECTOMY

MODERATOR: Matthias Eikermann, MD, PhD, *Associate Professor of Anaesthesia, Harvard Medical School; Director of Research, Critical Care Division, Massachusetts General Hospital, Boston, Massachusetts*

LEARNER OBJECTIVES: At the end of this session, the learner will be able to: (1) Summarize incidence, pathophysiology, and diagnosis of sleep apnea in patients with morbid obesity; (2) Discuss the pathophysiology and prevention of postoperative respiratory failure in morbidly obese patients undergoing abdominal surgery; (3) Define a safe anesthesia regimen that helps optimize airway patency at the end of the case; and (4) Discuss the value of postoperative treatment plans - including CPAP treatment and regional analgesia.

✱ REVIEW COURSE LECTURES

RCL-05 • 8:00 – 8:55 am

**CONTROVERSIES IN PEDIATRIC ANESTHESIA:
MYTHBUSTERS TO THE RESCUE**

PRESENTERS:

Peter J. Davis, MD, *Anesthesiologist-in-Chief, Children's Hospital of Pittsburgh, Professor of Anesthesiology and Pediatrics, University of Pittsburgh School of Medicine, Children's Hospital of Pittsburgh of UPMC, Pittsburgh, Pennsylvania*

Santhanam Suresh, MD, FAAP, *Anesthesiologist-in-Chief, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology & Pediatrics, Northwestern University's Feinberg School of Medicine, Chicago, Illinois*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to allay myths about issues related to pediatric anesthesia including but not limited to: (1) Upper respiratory tract and anesthesia; (2) Neurodegenerative changes associated with anesthesia in infants; and (3) Cardiac arrest in children: Is it the weight or the pathology?

RCL-06 • 9:00 – 9:55 am

**BIS MONITORING AND PERIOPERATIVE OUTCOMES:
DOES IT MAKE A DIFFERENCE?**

PRESENTER: Michael S. Avidan, MBBCh, FCASA, *Professor of Anesthesiology and Cardiothoracic Surgery; Division Chief, CT Anesthesiology and CT Intensive Care; Director, Institute of Quality Improvement, Research and Informatics, Washington University School of Medicine, St. Louis, Missouri*

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.

RCL-07 • 10:00 – 10:55 am

**QUALITY AND PATIENT SAFETY: THE NEW
ORGANIZATIONAL VITAL SIGNS**

PRESENTER: Colleen Koch, MD, MS, MBA, FACC, *Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Vice Chair Research and Education; Department of Cardiothoracic Anesthesia, Quality and Patient Safety Institute, Cleveland Clinic, Cleveland, Ohio*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Briefly illustrate Cleveland Clinic Quality and Patient Safety Institute Infrastructure; (2) Describe why using thresholds for quality metrics is not always optimal; and (3) Demonstrate current process improvement initiatives and quality investigations from the Cleveland Clinic Quality and Patient Safety Institute.

RCL-08 • 11:30 am – 12:25 pm

**ANESTHESIA FOR COMMON EMERGENCY SURGERY IN
INFANTS AND CHILDREN: ARE YOU WELL EQUIPPED?**

PRESENTER: Santhanam Suresh, MD, FAAP, *Anesthesiologist-in-Chief, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology & Pediatrics, Northwestern University's Feinberg School of Medicine, Chicago, Illinois*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Familiarize themselves with techniques needed to accomplish safe administration of anesthesia in infants and children undergoing emergency surgery; (2) Identify the need for adequacy of preoperative preparation in an emergency setting; and (3) Discuss common cases in pediatrics that will continue to baffle anesthesiologists in day-to-day practice.

RCL-09 • 2:00 – 2:55 pm

**REGIONAL ANESTHESIA FOR ORTHOPEDIC SURGERY:
BLOCKS THAT EVERYONE SHOULD KNOW!**

PRESENTER: Andrew D. Rosenberg, MD, *Chief, Department of Anesthesiology, NYU Hospital for Joint Diseases, Executive Vice Chair, Department of Anesthesiology, Professor of Anesthesiology and Orthopedic Surgery, NYU School of Medicine, New York, New York*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe how to use ultrasound guidance to perform regional anesthesia techniques; (2) Describe ultrasound guided blocks of the upper extremity including interscalene and infraclavicular blocks; and (3) Enumerate the steps involved in performing a femoral nerve block by ultrasound guidance.

RCL-10 • 3:00 – 3:55 pm

**PERIOPERATIVE ANTIPLATELET DRUGS WITH CORONARY
STENTS AND DANCING WITH SURGEONS: CAN WE EVER
AGREE ABOUT BLEEDING VERSUS ISCHEMIC RISK?**

PRESENTERS:

Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS, CCPE, *Distinguished University Professor & Chair/Chief, Department of Anesthesia and Perioperative Medicine, London Health Sciences Centre and St. Joseph's Healthcare, Western University; Medical Director, MEDICI Centre, London, Ontario, Canada*

Thomas R. Vetter, MD, MPH, *Maurice S. Albin Professor, Vice Chair, Department of Anesthesiology, University of Alabama School of Medicine, Birmingham, Alabama*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Review the pharmacology of antiplatelet drugs and the pathophysiology and epidemiology of a perioperative major cardiac adverse event (MACE) with coronary artery stents; (2) Define the risk of intraoperative and postoperative surgical bleeding with antiplatelet drugs; (3) Critique the current evidence and guidelines for the perioperative management of antiplatelet drugs in patients with a coronary artery stent; (4) Discuss the principles and use of consensus decision-making in developing clinical practice guidelines and care pathways involving a variety of healthcare providers; and (5) Present two examples of achieving institutional stakeholder consensus about perioperative antiplatelet drugs for coronary artery stents.

8:00 am – 11:00 am
International Science Symposium

The Role of Mitochondria in the Perioperative Period

Symposium Moderator:

Philip G. Morgan, MD
Seattle Children's Hospital, Seattle, Washington

✱ **Anesthetic Care of Patients with Myotonia
vs. Mitochondrial Disease**

Philip G. Morgan, MD, *Professor, Director, Program in Mitochondrial Biology, Seattle Children's Research Institute, Department of Anesthesiology and Pain Medicine, University of Washington, Seattle, Washington*

✱ **The Role of Mitochondria in Sepsis**

Richard J. Levy, MD, *Director of Cardiac Anesthesia, Associate Chief of Anesthesiology and Pain Medicine, Associate Professor of Anesthesiology and Critical Care Medicine, Pediatrics, and Integrative Systems Biology, Children's National Medical Center, Washington, DC*

✱ **The Role of Mitochondria in Ischemia/Reperfusion**

David F. Stowe, MD, PhD, *Professor of Anesthesiology and Physiology, Medical College of Wisconsin; Adjunct Professor of Biomedical Engineering, Marquette University, Milwaukee, Wisconsin*

✱ **The Role of Mitochondria in Heart Failure**

Rong Tian, MD, PhD, *Professor, Department of Anesthesiology and Pain Medicine, University of Washington, Seattle, Washington*

✱ **The Role of Mitochondria in Trauma**

Gary Fiskum, PhD, *Matjasko Professor for Research in Anesthesiology and Vice-Chair, Research, University of Maryland School of Medicine, Baltimore, Maryland*

The symposium will elucidate the importance of mitochondrial function in several aspects of perioperative medicine. These will include the response to anesthetics, and the roles of mitochondria in ischemia/reperfusion, cardiac failure, sepsis and trauma.

Learner Objectives:

After participating in this activity, the learner will be able to:

- (1) Provide a description of the interactions between commonly-used anesthetic drugs and mitochondrial function;
- (2) Present data on the mechanisms by which mitochondrial dysfunction plays a role in sepsis, cardiac failure and trauma; and
- (3) Review the current understanding of the role of mitochondria in ischemia/reperfusion.

★ **REVIEW COURSE LECTURES, continued**

RCL-11 • 4:00 – 4:55 pm

THE LINK BETWEEN ACUTE AND CHRONIC PAIN

PRESENTER: James P. Rathmell, MD, *Chief, Division of Pain Medicine, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Henry Knowles Beecher Professor of Anaesthesia, Harvard Medical School, Boston, Massachusetts*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Define the term “preemptive analgesia”; (2) Discuss the clinical effectiveness of employing preemptive analgesia; (3) Describe risk factors for persistent postsurgical pain; and (4) Discuss the concept of “preventative analgesia” and the best means currently available to use this approach in clinical practice.

★ **PANELS**



P-04 • 8:00 – 9:30 am

BUILDING QUALITY AND ESTABLISHING VALUE FROM INFORMATION SYSTEMS

MODERATOR: David L. Reich, MD, *Icahn School of Medicine at Mount Sinai, New York, New York*

PANELISTS:

★ **Monitoring Performance of Residents and Staff**

Brian Rothman, MD, *Assistant Professor, Division of Multispecialty Adult Anesthesiology, Associate Director of Perioperative Informatics, Vanderbilt University Medical Center, Nashville, Tennessee*

★ **Intelligent Systems-Based Goal-Directed Hemodynamic Therapy**

Maxime Cannesson, MD, *Associate Professor of Clinical Anesthesiology, Department of Anesthesiology and Perioperative Care, School of Medicine, University of California Irvine, Orange, California*

★ **Managing Departmental Quality and Administration**

David L. Reich, MD, *Horace W. Goldsmith Professor and Chair of Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss how technologies may be used to analyze resident and attending clinical performance and quality measures; (2) Learn how new technologies for analysis and display of hemodynamic information will improve perioperative fluid management; and (3) Learn how analyses of data from anesthesia and hospital information systems can be used to manage quality and to manage a department of anesthesiology.



P-05 • 9:30 – 11:00 am

THE PEDIATRIC AIRWAY: FROM BASICS TO ADVANCED MANAGEMENT TECHNIQUES

MODERATOR: Samuel Wald, MD, *UCLA Department of Anesthesiology, Los Angeles, California*

PANELISTS:

★ **Basics of the Pediatric Airway – Anatomy, Physiology and Abnormalities**

Prabhat Koppera, MD, *Clinical Lecturer, Department of Anesthesiology, University of Michigan, Ann Arbor, Michigan*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss age-related anatomic and physiologic differences between infants, children and adults; and (2) Describe diseases and syndromes associated with a difficult pediatric airway.

★ **Management of the Difficult Pediatric Airway – Old Tricks and New Gadgets**

Cathleen Lammers, MD, *Associate Professor, Department of Anesthesiology and Pain Medicine, Sacramento, California*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Develop an approach to the anticipated and unanticipated difficult airway in a child; (2) Describe techniques to facilitate successful intubation in a child with abnormal airway anatomy; and (3) Describe currently available airway management devices and medications appropriate for use in children.

★ **Anesthetic Techniques for Shared Airway Procedures – Rigid Bronchoscopy, Foreign Body, Laryngeal Papillomatosis**

Samuel Wald, MD, *Professor, UCLA Department of Anesthesiology, Los Angeles, California*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the unique challenges associated with anesthetizing a child for airway surgery; (2) Describe anesthetic techniques for laser treatment of laryngeal papillomatosis in a child and laser safety; and (3) Identify the anesthetic challenges and techniques for a child undergoing bronchoscopy for retrieval of a bronchial foreign body.



P-06 • 10:00 am – 10:30 am

ABA ASSESSMENT PROGRAMS FOR PRIMARY CERTIFICATION IN ANESTHESIOLOGY

During this 30-minute session, presenters will review and discuss the:

- Comparison of the Part 1 and Part 2 Examinations
- Outline of the traditional Part 2 Examination process, including specific areas evaluated in the examination, common problems encountered by candidates, and discussion of the successful candidate
- ABA transition to the new Staged Examinations assessment program, including overview of the BASIC, ADVANCED and APPLIED Examinations

PANELISTS:

Santhanam Suresh, MD, FAAP, *Anesthesiologist-in-Chief, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University's Feinberg School of Medicine, Chicago, Illinois*

Deborah Culley, MD, *Assistant Professor, Harvard Medical School; Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts*



P-07 • 10:30 – 11:00 am

ABA MAINTENANCE OF CERTIFICATION IN ANESTHESIOLOGY PROGRAM® (MOCA®)

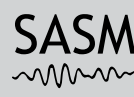
During this 30-minute session, presenters will review and discuss the components of the MOCA® program, including:

- Part 1: Assessments of Professional Standing (Medical Licensure)
- Part 2: Lifelong Learning and Self-Assessment (CME activities)
- Part 3: Cognitive Examination and Prerequisites
- Part 4: Practice Performance Assessment and Improvement
- Diplomates' online portal accounts
- MOCA®-SUBS for maintenance of subspecialty certification

PANELISTS:

Santhanam Suresh, MD, FAAP, *Anesthesiologist-in-Chief, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology and Pediatrics, Northwestern University's Feinberg School of Medicine, Chicago, Illinois*

Deborah Culley, MD, *Assistant Professor, Harvard Medical School; Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts*



P-08 • 11:30 am – 1:00 pm

SLEEP APNEA AND ANESTHESIA: IDENTIFYING THOSE MOST AT RISK

MODERATOR: Frances Chung, MBBS, FRCPC, *Professor, Department of Anesthesiology, University of Toronto, Medical Director, Ambulatory Surgical Unit and Combined Surgical Unit, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada*

PANELISTS:

✱ **Sleep Apnea and Perioperative Outcomes: Refining Risk Factors**

Roop Kaw, MD, *Associate Professor of Medicine, Department of Hospital Medicine and Outcomes Research, Anesthesiology, Cleveland Clinic, Cleveland, Ohio*

This presentation will examine the evidence base, the size of the problem and how risk might be refined and stratified.

✱ **Ventilatory Impairment, Sleep Disordered Breathing and Anesthesia**

David Hillman, MBBS, FANZCA, FRCP (Edin), FRACP (Hon), *Head, Department of Pulmonary Physiology and Sleep Medicine, Director, West Australian Sleep Disorders Research Institute, Sir Charles Gairdner Hospital, Perth, Australia*

This presentation will examine mechanical issues: ventilatory incapacity and how this relates to risk of sleep hypoventilation, respiratory failure (e.g. in morbid obesity, neuromuscular disease, advanced lung disease) and perioperative implications.

✱ **Anesthesia, Sedation and Sleep: How Do These Differ?**

Mervyn Maze, MD, *Professor and Chair, Department of Anesthesia and Perioperative Care, University of California (UCSF), San Francisco, California*

This presentation will examine the potential influences of disorders of ventilatory control and arousal on perioperative outcomes.

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the perioperative risks associated with sleep-related breathing disorders; (2) Determine who amongst those with sleep-related breathing disturbances might be at particular risk; and (3) Appreciate the influence of mechanical factors and disorders of ventilatory control and arousal on these risks.

✱ PANELS, continued

European
Society of
Anaesthesiology

ESA

P-09 • 11:30 am – 1:00 pm

FUTURE CHALLENGES IN PERIOPERATIVE MEDICINE FOR ANESTHESIOLOGISTS

MODERATOR: Alex S. Evers, MD, Henry E. Mallinckrodt Professor of Anesthesiology, Professor of Internal Medicine and Developmental Biology, Washington University School of Medicine, St. Louis, Missouri

PANELISTS:

✱ **Management of Cardiovascular Performance:
Are We Applying The Evidence?**

Wolfgang Buhre, MD, PhD, Professor and Chairman, Division of Anesthesiology, Intensive Care and Emergency Medicine, University Medical Center, Utrecht, The Netherlands

✱ **Management of Respiration and Ventilation:
Can We Improve?**

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

✱ **Major Adverse Events, Complications and Medical
Emergency Teams: Should Anesthesiologists Take a
Leading Role?**

Andreas Hoeft, MD, PhD, Professor and Chairman, Department of Anesthesiology and Intensive Care Medicine, University Hospital, Bonn, Germany

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the current clinical practice status and the possible deficits; (2) Realize the current challenges for improvement as well as future direction of research; and (3) Discuss which roles in the perioperative process might be taken by anesthesiologists.



SNACC
SOCIETY FOR NEUROSCIENCE
IN ANESTHESIOLOGY AND CRITICAL CARE

P-10 • 11:30 am – 1:00 pm

STROKE AND THE ANESTHESIOLOGIST

MODERATOR: Deepak Sharma, MBBS, MD, DM, Associate Professor, Department of Anesthesiology and Pain Medicine, Adjunct Associate Professor, Department of Neurological Surgery, Program Director, Neuroanesthesiology Fellowship, Neuroanesthesiology Education Director, Harborview Medical Center, University of Washington, Seattle, Washington

PANELISTS:

✱ **Endovascular Treatment of Acute Ischemic Stroke:
Controversies and Consensus**

Pekka O. Talke, MD, Professor, Department of Anesthesia and Perioperative Care, University of California San Francisco (UCSF), San Francisco, California

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss different endovascular therapies for acute ischemic stroke; (2) Recognize limitations in current literature relating to anesthetic management of endovascular treatment of acute ischemic stroke; and (3) Describe recommendations for anesthetic management of acute ischemic stroke.

✱ **Perioperative Stroke after Non-Cardiac Surgery**

George A. Mashour, MD, PhD, Associate Chair for Faculty Affairs, Assistant Professor of Anesthesiology and Neurosurgery Faculty, Neuroscience Graduate Program, University of Michigan Medical School, Ann Arbor, Michigan

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify patients at high risk of stroke after noncardiac surgery; (2) Describe perioperative care plans to minimize risk of stroke; and (3) Describe management of stroke in the postoperative period.

✱ **Stroke After Cardiac Surgery: Risk Factors and
Prevention**

G. Burkhard Mackensen, MD, PhD, FASE, Professor and Acting Chair, UW Medicine Research and Education Endowed Professor in Anesthesiology, Department of Anesthesiology and Pain Medicine, Seattle, Washington

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Recognize risk factors for the development of stroke after cardiac surgery; (2) Identify preventive strategies that may impact the risk of stroke after cardiac surgery; and (3) Discuss neuroprotective options in the context of cardiac surgery.

SmartTots P-11 • 2:00 – 3:30 pm

UPDATE ON NEW SCIENTIFIC ADVANCES IN ANESTHETIC NEUROTOXICITY IN THE DEVELOPING BRAIN

MODERATOR: Dean B. Andropoulos, MD, MHCM, *Chief of Anesthesiology, Texas Children's Hospital, Professor, Anesthesiology and Pediatrics, Baylor College of Medicine, Houston, Texas; Scientific Advisory Board Member, SmartTots*

PANELISTS:

- ✱ **Update in Mechanisms of Neurotoxicity and Neuroprotective Strategies**
- ✱ **Mitochondria and PPX Neuroprotection**

Vesna Jevtovic-Todorovic, MD, PhD, MBA, *Harold Carron Professor of Anesthesiology and Neuroscience, University of Virginia Health System, Charlottesville, Virginia; Scientific Advisory Board Member, SmartTots*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify presently available evidence regarding the mechanisms responsible for the neurotoxic effects of general anesthesia on the developing rat brain; and (2) Evaluate protective strategies that could alleviate anesthesia-induced neurotoxic side effects.

- ✱ **Effects of Surgical Stimulus in Animal Models**
- ✱ **Ketamine in Neonatal Rat Model With Surgical Stimulus**

Sulpicio G. Soriano, III, MD, *Boston Children's Hospital Endowed Chair in Pediatric Neuroanesthesia, Professor of Anaesthesia, Harvard Medical School, Boston, Massachusetts*

LEARNER OBJECTIVE: After participating in this activity, the learner will be able to: (1) Review the relevance of concurrent pain and surgical stimulus on the modulation of anesthetic-induced neuroapoptosis.

- ✱ **Studies of Anesthetic Neurotoxicity in the Developing Non-Human Primate**
- ✱ **Importance of Primate Studies; Ketamine and Isoflurane in Clinical Doses; Plans for Long Term Follow-up Studies**

Ansgar M. Brambrink, MD, PhD, *Professor of Anesthesiology and Perioperative Medicine, Oregon Health and Science University, Portland, Oregon*

LEARNER OBJECTIVES: After participating in the activity, the learner will be able to: (1) Discuss the role of neurotoxicity studies in the developing non-human primate and the experimental models used; (2) Review the main findings from these experiments applying commonly used anesthetics including ketamine, isoflurane and propofol; and (3) Describe objectives and design of ongoing studies investigating the long-term effects of anesthetics in the infant monkeys.

- ✱ **Does the Scientific Data Warrant a Change in Pediatric Anesthesia Practice?**
- ✱ **Review of PANDA and Other Data and Recommendations for Practice Now**

Lena S. Sun, MD, *Professor of Anesthesiology and Pediatrics and Chief, Division of Pediatric Anesthesiology at Columbia University Medical Center, New York, New York*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Review clinical studies related to anesthetic neurotoxicity and summarize their main findings; (2) Review ongoing clinical studies in neurodevelopmental outcome after early childhood exposure; and (3) Discuss whether evidence supports changes in clinical practice.

P-12 • 3:30 – 5:00 pm

SMARTSENIORS: AVOIDING THE COGNITIVE CLIFF OF PERIOPERATIVE BRAIN FAILURE

MODERATOR: Gregory Crosby, MD, *Harvard Medical School, and Brigham & Women's Hospital, Boston, Massachusetts*

- ✱ **Why Seniors Are Vulnerable in the OR and ICU**

Gregory Crosby, MD, *Associate Professor, Harvard Medical School, Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham & Women's Hospital, Boston, Massachusetts*

- ✱ **Anesthesia & Analgesia – Friend or Foe?**

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

- ✱ **Surgery & Inflammation – Foe For Sure**

Mervyn Maze, MB, ChB, *Professor and Chair, Department of Anesthesia & Perioperative Care, University of California (UCSF), San Francisco, California*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Articulate why seniors are at risk for cognitive dysfunction perioperatively; (2) Realize how anesthesia and surgery contribute to cognitive morbidity; and (3) Use this information to better counsel patients and tailor perioperative management to optimize perioperative cognitive outcomes in elderly surgical patients.

✱ WORKSHOPS

W-01 • 8:00 – 12:00 noon

ADVANCED ULTRASOUND GUIDED NERVE BLOCK*

WORKSHOP LEADER: Vincent W.S. Chan, MD, FRCPC, *Professor, Department of Anesthesiology, University of Toronto, Toronto Western Hospital, Toronto, Ontario, Canada*

✱ Neuraxial Space and Lumbar Plexus

Peter J. Foldes, MD, *Director of Regional Anesthesia Fellowship, Assistant Professor, University of Iowa, Iowa City, Iowa*

✱ Thoracic Paravertebral Space and Parasacral Sciatic Nerve

Jacques E. Chelly, MD, PhD, MBA, *Professor of Anesthesiology (with Tenure) and Orthopedic Surgery, Vice Chair of Clinical Research, Director, Regional and Orthopedic Fellowships Director, Division of Acute Interventional Perioperative Pain and Regional Anesthesia Department of Anesthesiology, University of Pittsburgh Medical Center, Director, Acute Interventional Perioperative Pain, UPMC Presbyterian- Shadyside Hospitals, Pittsburgh, Pennsylvania*

✱ Sciatic Nerve (Transgluteal, Subgluteal, Anterior Approaches)

Sylvia Wilson, MD, *Assistant Professor, Department of Anesthesiology and Perioperative Medicine, Division Chief of Regional Anesthesia Pain Medicine and Orthopedic Anesthesia, Medical University of South Carolina, Charleston, South Carolina*

✱ Abdominal Wall and Trunk - (Ilioinguinal, Iliohypogastric, Obturator and Saphenous Nerves, Transversus Abdominis Plane and Rectus Sheath)

Vicki E. Modest, MD, *Instructor, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Perform ultrasound imaging of small peripheral nerves, sciatic nerve, paravertebral space and neuraxial space; (2) Recognize appropriate clinical indications and alternatives for ultrasound guided blocks in the described regions; (3) Apply appropriate block approaches in the described regions; (4) Explain how ultrasound techniques differ from conventional approaches; and (5) Select appropriate equipment and medication choices and doses.

*** Note:** W-01 is an advanced course in ultrasound. Basic topics such as machine operation, blockade of the brachial plexus, femoral nerve, popliteal sciatic nerve and ankle will not be covered in this session.



Join your colleagues as we 'Party with a Purpose' at the IARS 2013 Annual Meeting in beautiful San Diego. 100% of the funds raised through this event will fund innovative IARS and SmartTots anesthesia research projects (black tie optional).

Sunday, May 5, 2013
6:30 pm – 10:00 pm
Sheraton San Diego Hotel & Marina

Guests will enjoy a fun-filled evening to include:

- Opening Networking Reception with Hosted Bar
- Dinner and Dessert
- Live Music & Dancing
- Silent Auction – featuring exciting once-in-a-lifetime trips and vacations!

Stop by the Registration Desk
and purchase your ticket today!



**SOCCA PRESENTS
A ONE-DAY CRITICAL CARE
ULTRASOUND WORKSHOP**

W-02 • 8:00 am – 5:00 pm

The Society of Critical Care Anesthesiologists (SOCCA) will be conducting a full-day critical care ultrasound workshop utilizing focused lectures, hands-on training with live models, simulators, and state-of-the-art ultrasound equipment from several companies. This course is designed to teach the participant the fundamentals of diagnostic critical care ultrasonography including: standard ultrasound views for the Focused Assessed Transthoracic Echo (FATE) exam, the use of ultrasound in hemodynamically unstable patients, and pleural-lung ultrasonography. The course will also utilize an audience response system for multiple case discussions and clinical decision making scenarios.

Antonio Hernandez, MD, *Associate Professor of Clinical Anesthesiology, The Vanderbilt Clinic, Vanderbilt University, Nashville, Tennessee*

Peter Von Homeyer, MD, FASE, *Assistant Professor, Department of Anesthesiology & Pain Medicine, Adjunct Assistant Professor, Department of Surgery, Interim Chief, Cardiothoracic Anesthesia, University of Washington School of Medicine; Co-Director, Cardiothoracic Intensive Care Unit, University of Washington Medical Center, Seattle Washington*

Sean Patrick Kiley, MD, *Assistant Professor of Anesthesiology and Critical Care Medicine, Shands Hospital at the University of Florida, Shands Live Oak, U.S. Physicians Shands Healthcare, Shands at Starke, Shands at Lake Shore, Gainesville, Florida*

Isaac P. Lynch, MD, *Assistant Professor, Anesthesiology, Washington University School of Medicine, Barnes Jewish Hospital, St. Louis, Missouri*

Joseph Meltzer, MD, *Associate Clinical Professor, Critical Care, Director, Critical Care Medicine Fellowship Program, Department of Anesthesiology, UCLA, Los Angeles, California*

Achikam Oren-Grinberg, MD, MS, *Assistant Professor in Anaesthesia, Harvard Medical School, Director of Critical Care, Echocardiography Department of Anesthesia, Critical Care and Pain Management, Beth Israel Deaconess Medical Center, Boston, Massachusetts*

Aliaksei Pustavoitau, MD, *Assistant Professor of Anesthesiology and Critical Care Medicine, The Johns Hopkins Hospital, John Hopkins Geriatrics Centers, Baltimore, Maryland*

Ricardo Martinez-Ruiz, MD, *Associate Professor of Clinical Anesthesiology, University of Miami Leonard M. Miller School of Medicine, Jackson Memorial Hospital, Cedars Medical Center, Jackson South Community Hospital, Veterans Affairs Medical Center – Miami, Miami, Florida*

Breandan Sullivan, MD, *Assistant Professor, University of Colorado Hospital – Anschutz Inpatient Pavilion, University Hospital – Denver, The Children's Hospital – Denver, Aurora, Colorado*

John Taylor, MD, *Assistant Clinical Professor, University of California, San Francisco School of Medicine, Anesthesiologist, UCSF Medical Center / Moffitt Long Hospitals, San Francisco, California*

Steven G. Venticinque, MD, *Professor of Clinical Anesthesiology & Surgery, Program Director Anesthesiology Critical Care Fellowship, Director, TRISAT Critical Care Consortium, Director, Audie L. Murphy VA Surgical ICU, Department of Anesthesiology, University of Texas Health Science Center, San Antonio, Texas*

Participation in the Critical Care Ultrasound Workshop

Attendance shall be open to all health practitioners, provided that they have registered for the meeting. CME credit will only be offered to MD's, DO's or equivalent. A completed Physician Verification of Attendance form must be turned in to SOCCA at the conclusion of the meeting. The form will be available at this session.

Critical Care Ultrasound Workshop

The International Anesthesia Research Society designates this live activity for a maximum of 8.0 AMA PRA Category 1 Credit(s).™ Physicians should claim only credit commensurate with the extent of their participation in the activity.

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Review current experience and literature regarding the use of ultrasound for perioperative and ICU management of critically ill patients and those undergoing high risk surgery with special emphasis on the Focused Assessed Transthoracic Echo (FATE) exam; (2) Review and discuss the use of transthoracic ultrasound in perioperative cardiac evaluation, including ventricular volume and function, and basic valvular function; (3) Review and discuss the use of transthoracic ultrasound in pleural and lung assessment, including pleural effusions and pneumothorax; and (4) Develop technical facility with the use of ultrasound for cardiac, intravascular volume, and pleural – lung evaluation, and the use of ultrasonography in the assessment of the hemodynamically unstable patient.

Daily Schedule At-A-Glance

6:30 am – 5:00 pm	Registration
7:00 am – 8:00 am	Problem-Based Learning Discussions
8:00 am – 11:00 am	Symposium <i>Pain Mechanisms & Management: An Evidence-Based Approach</i>
8:00 am – 1:00 pm	Concurrent Education Sessions <ul style="list-style-type: none"> • Review Course Lectures • Panels • Workshops • Moderated Poster Discussion Rounds
11:30 am – 1:30 pm	Abstract Award Session <ul style="list-style-type: none"> • Best of Meeting • Kosaka
2:00 pm – 5:00 pm	Symposium <i>Post-Traumatic Coagulopathy: Mechanisms and Treatment</i>

7:00 am – 2:00 pm Tabletop Exhibits



PBLD-02 • 7:00 – 8:00 am

EVERYONE NEEDS TO EVACUATE THE SURGICENTER

MODERATOR: Steven Butz, MD, *Associate Professor of Anesthesiology, Medical College of Wisconsin; Medical Director, Surgicenter of Greater Milwaukee, Milwaukee, Wisconsin*

LEARNER OBJECTIVES: At the end of this session, the learner will be able to: (1) Evaluate their workplace for risk of disaster; and (2) Implement an effective evacuation plan including identifying an event commander and rally points.



PBLD-03 • 7:00 – 8:00 am

VASOPRESSIN

MODERATOR: Mabel Chung, MD, *Assistant Professor of Anesthesiology and Critical Care Medicine, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, New York*

LEARNER OBJECTIVES: At the end of this session, the learner will be able to: (1) Describe the physiology of vasopressin; (2) Describe the pathophysiology of vasopressin excess and deficiency; (3) Identify the locations of V1 and V2 receptors, as well as the effects of their agonists and antagonists; and (4) Describe the rationale for and against vasopressin replacement therapy in sepsis.

PBLD-04 • 7:00 – 8:00 am

THE MORBIDLY OBESE ADULT PATIENT FOR AMBULATORY SURGERY: ANESTHESIA CONUNDRUMS AND PITFALLS

MODERATOR: Girish P. Joshi, MBBS, MD, FFARCSI, *Professor of Anesthesiology and Pain Management, Director of Perioperative Medicine and Ambulatory Anesthesia, University of Texas Southwestern Medical Center, Dallas, Texas*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the concerns of morbid obesity in adult undergoing ambulatory surgery; (2) Appreciate the importance of appropriate selection of morbidly obese patients scheduled for ambulatory surgery; and (3) Discuss optimal care that minimize perioperative risks in morbidly obese patients.

PBLD-05 • 7:00 – 8:00 am

THE AGING ANESTHESIOLOGIST: HOW DO WE SET OUR STANDARDS?

MODERATOR: Aubrey Maze, MD, FAAP, *Chief Executive Officer, Valley Anesthesiology Consultants, Clinical Professor of Anesthesiology, University of Arizona, Phoenix, Arizona*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe what is aging in relationship to work; (2) Discuss how and who do we assess competent when “older”; and (3) Discuss when does one retire.

★ PROBLEM-BASED LEARNING DISCUSSIONS



PBLD-01 • 7:00 – 8:00 am

REGIONAL ANESTHESIA IN OBSTETRICS: SPINAL CATHETERS, COAGULATION, AND OTHER COMMON CONUNDRUMS

MODERATOR: Craig M. Palmer, MD, *Professor of Anesthesiology, University of Arizona College of Medicine, Tucson, Arizona*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe the management of a continuous spinal catheter for labor analgesia; (2) Describe use of imaging techniques in patients with altered anatomy; (3) Describe safe practices for regional anesthesia in patients with coagulation abnormalities; (4) Recognize common sources of fever in the parturient, and strategy for safe regional anesthesia.

* REVIEW COURSE LECTURES

RCL-12 • 8:00 – 8:55 am

ANESTHESIA FOR ELECTROPHYSIOLOGY

PRESENTER: Daniel Bainbridge, MD, FRCPC, Associate Professor and Director of Cardiac Anesthesia, Department of Anesthesia & Perioperative Medicine, London Health Sciences Center, Western University, London, Ontario, Canada

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Review the pathophysiology of atrial fibrillation, atrial flutter and WPW syndrome; (2) Discuss and identify approaches to anesthesia (Sedation vs. General Anesthesia) and the advantages and disadvantages to each approach; and (3) Discuss potential complications and treatment options following EP procedures.

RCL-13 • 9:00 – 9:55 am

POPULAR MISUNDERSTANDINGS IN NEUROANESTHESIA

PRESENTER: John C. Drummond, MD, FRCPC, Professor of Anesthesiology, University of California, San Diego, Staff Anesthesiologist, VAMC San Diego, San Diego, California

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to discuss the: (1) Elements of physiology and pharmacology relevant to neuroanesthesia that are commonly misunderstood and that have the potential to have adverse effects on patients undergoing neurosurgery; (2) Numeric value of the lower limit of CBF autoregulation and its inter-individual variability; (3) Concept of the CNS blood flow reserve and the physiologic phenomena that reduce that reserve in some patients; (4) Variable, pathology-dependent, effect of volatiles agents on CBF; (5) Effect of alpha1 agonists on human CBF; and (6) Effect of hydrostatic pressure gradients on cerebral perfusion/transmural pressure.

RCL-14 • 10:00 – 10:55 am

AIRWAY EMERGENCIES – WHAT DO YOU DO WHEN YOU ARE IN TROUBLE?

PRESENTER: Maya S. Suresh, MD, Professor and Chairman, Baylor College of Medicine, Division Chief, Obstetric, Houston, Texas; Immediate President of SAM and Immediate Past President of SOAP

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss ASA Closed Claim Studies and airway issues related to intubation, extubation and emergence; (2) Discuss the recurring airway related themes shown in the UK Fourth National Audit Project that have resulted in adverse outcomes; (3) Review an airway-related case and discuss different strategies to successfully manage airway issues encountered during intubation; (4) Discuss strategies to manage cannot intubate – cannot ventilate situations; and (5) Identify risk factors leading up to airway-related mortality following emergence from anesthesia and successful management to avoid morbidity and mortality.

RCL-15 • 11:30 am – 12:25 pm

LIES, DAMN LIES AND ANESTHETIC MYTHS

PRESENTER: John F. Butterworth, IV, MD, Professor and Chair, Department of Anesthesiology, VCU School of Medicine, Richmond, Virginia

LEARNER OBJECTIVES: This lecture examines commonly held beliefs in the practice of anesthesia. After participating in this activity, the learner will be: (1) Made aware of the limited data that support seemingly well-established clinical practices; and (2) Will retain a healthy skepticism about the scientific underpinnings of common anesthetic preferences, practices and traditions.

* PANELS



P-13 • 8:00 – 9:30 am

THE BEST OF THE NEW IN CLINICAL PHARMACOLOGY

MODERATOR: Ken B. Johnson, MD, University of Utah, Salt Lake City, Utah

PANELISTS:

* Early Brain Development and Anesthesia Exposure: Do We Have All The Answers?

Vesna Jevtovic-Todorovic, MD, PhD, MBA, Harold Carron Professor of Anesthesiology and Neuroscience, University of Virginia Health System, Charlottesville, Virginia; Scientific Advisory Board Member, SmartTots

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Summarize new anesthetic drug development activity; (2) Review their mechanism of action; and (3) Discuss what makes them “new” and potential advantages over existing anesthetics.

* Update in Neuromuscular Blockade Reversal

Mohamed Naguib, BCh, MSc, FARCSI, MD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, Ohio

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss mechanisms of neuromuscular blockade reversal; (2) Summarize recent clinical studies and meta analyses reporting efficacy and risk; and (3) Discuss advantages and disadvantages of various neuromuscular blockade reversals.

* What's in the Drug Development Pipeline for Anesthesia?

Ken B. Johnson, MD, Professor, Department of Anesthesiology, University of Utah, Salt Lake City, Utah

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss key issues regarding animal data on anesthetic neurotoxicity in the developing brain; (2) Summarize the retrospective clinical studies of neurobehavioral outcomes after infant anesthesia; and (3) Discuss the limitations of both the animal and human data.

8:00 am – 11:00 am
Symposium

Pain Mechanisms and Management: An Evidence-Based Approach

Symposium Moderator

Santhanam Suresh, MD, FAAP

*Ann & Robert H. Lurie Children's Hospital and
Northwestern University's Feinberg School, Chicago, Illinois*

Symposium Presenters

✱ **Neurobiology of Pain**

Tony L. Yaksh, PhD, Vice Chairman of Anesthesia Research, Distinguished Professor of Anesthesiology and Pharmacology, UC San Diego School of Medicine, La Jolla, California

✱ **Neuroimaging-Based Pain Detection: Objective Measure of Pain or a Journey Down the Rabbit Hole?**

Sean Mackey, MD, PhD, Director of Pain Medicine, Stanford University, Palo Alto, California

✱ **Therapeutic Interventions in Chronic Pain: Is there Evidence?**

James P. Rathmell, MD, Chief, Division of Pain Medicine, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital; Associate Professor, Harvard Medical School, Boston, Massachusetts

✱ **Ultrasound Guidance for Regional Anesthesia: Is There Evidence to Demonstrate Superiority Over Other Techniques?**

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

✱ **Pediatric Pain Management: The Tip of the Iceberg**

Santhanam Suresh, MD, FAAP, Anesthesiologist-in-Chief, Ann & Robert H. Lurie Children's Hospital of Chicago; Professor of Anesthesiology & Pediatrics, Northwestern University's Feinberg School of Medicine, Chicago, Illinois

Learner Objectives:

After participating in this activity, the learner will be able to:

- (1) Review pain mechanisms and pain management using an evidence-based approach;
- (2) Identify pain mechanisms and therapeutic interventions in chronic pain;
- (3) Describe how neuroimaging is characterizing the individual differences in pain perception;
- (4) Identify recent advances in neuroimaging that may allow for the objective detection of acute and chronic pain – as well as the strengths and weaknesses of this technology;
- (5) Discuss the future directions and ethical implications of the objective detection of pain;
- (6) Debate the evidence available to demonstrate the superiority of guided ultrasound techniques for regional anesthesia over other techniques.

✱ PANELS – continued



P-14 • 11:30 am – 1:00 pm

CURRENT CONCEPTS AND NEW PERSPECTIVES – OB ANESTHESIA 2013

MODERATOR: Craig M. Palmer, MD, *Professor of Anesthesiology, University of Arizona College of Medicine, Tucson, Arizona*

✱ **Genetic Determinates of Labor Pain**

Ruth Landau, MD, *Virginia and Prentice Bloedel Professor of Anesthesiology, Director of Obstetric, Anesthesia and Clinical Genetics Research, Department of Anesthesiology and Pain Medicine, University of Washington Medical Center, Seattle, Washington*

✱ **Analgesics in the Breastfeeding Parturient**

Brendan Carvalho, MBBCh, FRCA, MDCH, *Department of Anesthesia, Stanford University School of Medicine, Stanford, California*

✱ **Tracking Maternal Mortality: The California Experience**

Edward Riley, MD, *Director of Obstetric Anesthesia, Department of Anesthesia, Stanford University School of Medicine, Stanford, California*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss genotypic determinants of labor analgesia requirements; (2) Recognize potential neonatal effects of maternal analgesic medications; (3) Describe surveillance efforts at state level to decrease maternal mortality; and (4) Recognize application of current investigations to on-going practice management.



Liver Intensive Care Group of Europe

P-15 • 11:30 am – 1:00 pm

THE LIVER AND THE KIDNEY

MODERATOR: Gebhard Wagener, MD, *Columbia University, New York, New York*

✱ **Biomarkers in Liver and Kidney Disease**

Gebhard Wagener, MD, *Associate Professor of Clinical Anesthesiology, Chief, Division of Vascular Anesthesia, Member, Divisions of Critical Care Medicine and Liver Transplant Anesthesia, College of Physicians and Surgeons of Columbia University, New York, New York*

✱ **The Liver and the Kidney: The Hepatologist's Perspective**

Elizabeth C. Verna, MD, MS, *Assistant Professor of Medicine, Center for Liver Disease and Transplantation, Division of Digestive and Liver Diseases, Columbia University College of Physicians and Surgeons, New York, New York*

✱ **Acute Kidney Injury After Liver Transplantation**

Raymond M. Planinsic, MD, *Professor of Anesthesiology, University of Pittsburgh School of Medicine, Director of Transplantation Anesthesiology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the pathophysiology of liver induced renal injury; (2) Appreciate how hepatorenal syndrome evolves, its differential diagnosis and how it affects intra-operative management and outcome in patients with hepatic cirrhosis; (3) Acquire knowledge of the limitations of conventional laboratory tests of liver and renal function and understand how novel biomarkers may overcome these limitations; and (4) Comprehend the risk factors and outcome of acute kidney injury after liver transplantation.

Tabletop Exhibits

The IARS tabletop exhibits provide a unique opportunity to interact one-on-one in an informal setting with industry representatives. Learn about the newest innovations and products and discuss the latest developments in anesthesia research and clinical practice.

Display Hours:

Saturday, May 4 7:00 am – 2:00 pm

Meet the Leadership

Reception 6:30 pm – 7:30 pm

Sunday, May 5 7:00 am – 2:00 pm

Monday, May 6 7:00 am – 2:00 pm

Exhibitors (as of press time):

- The American Board of Anesthesiology
- Assurance Biosense, Inc.
- Hospira
- International Society for Anaesthetic Pharmacology
- Lippincott Williams & Wilkins/WKH
- Masimo
- Mercury Medical
- Parker Medical
- Piramal Critical Care
- Pivotal Health Solutions
- Preferred Physicians Medical
- Respiratory Motion, Inc.
- Salter Labs
- Southwest Medical Books/Elsevier
- Teleflex

11:30 am – 1:30 pm
Abstract Award Session

Join your colleagues and cheer them on as they present their research, selected as the top scoring abstracts submitted to the IARS 2013 Annual Meeting. A panel of expert judges will award the following top honors:

11:30 am – 12:30 pm
Best of Meeting Awards

Judges

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

Colleen Koch, MD, MS, MBA, FACC, *Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland Clinic, Cleveland, Ohio*

Makoto Ozaki, MD, PhD, *Tokyo Women's Medical University, Tokyo, Japan*

Jeffrey J. Pasternak, MD, *Assistant Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota*

Santhanam Suresh, MD, FAAP, *Ann & Robert H. Lurie Children's Hospital and Northwestern University's Feinberg School, Chicago, Illinois*

✱ Best abstract presentation in patient-oriented research – \$1,000 award

✱ Best abstract presentation in basic science research – \$1,000 award

✱ Best abstract presentation in neuroscience **New!**

Sponsored by the Society for Neuroscience in Anesthesiology and Critical Care, the best abstract presentation in neuroscience will win a \$500 award, complimentary one-year membership to SNACC and a complimentary registration to the *2013 SNACC Annual Meeting in San Francisco*.



12:30 pm – 1:30 pm
Kosaka Award

Judges

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

Colleen Koch, MD, MS, MBA, FACC, *Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland Clinic, Cleveland, Ohio*

Makoto Ozaki, MD, PhD, *Tokyo Women's Medical University, Tokyo, Japan*

Santhanam Suresh, MD, FAAP, *Ann & Robert H. Lurie Children's Hospital and Northwestern University's Feinberg School Chicago, Illinois*

The top scoring abstracts submitted by Japanese researchers will compete against the top scoring matching topic abstracts submitted by their international colleagues.

✱ Best abstract presentation in patient-oriented research - \$1,000 award

✱ Best abstract presentation in basic science research - \$1,000 award

The Kosaka Award Session is supported by a \$1,000 grant from the Japanese Society for Clinical Anesthesia (JSCA), and a \$1,000 grant from the IARS.



* **PANELS – continued**

P-16 • 11:30 am – 1:00 pm**NOTORIOUS OXIDE – A CRITICAL APPRAISAL OF NITROUS OXIDE**

MODERATOR: Peter Nagele, MD, MSc, *Washington University School of Medicine, St. Louis, Missouri*

PANELISTS:* **Nitrous Oxide and Perioperative Vascular Complications: Results from the GALA Trial**

Robert D. Sanders, BSc (Hons), MBBS (Hons), PhD, FRCA, *Wellcome Department of Imaging Neuroscience and Surgical Outcomes Research Centre, University College London, London, United Kingdom*

* **Nitrous Oxide, Homocysteine and Perioperative Cardiac Events – Insights from the VINO Trial**

Peter Nagele, MD, MSc, *Assistant Professor, Washington University School of Medicine, Department of Anesthesiology and Genetics, St. Louis, Missouri*

* **The Last of the First: Nitrous Oxide in the 21st Century**

Kirk Hogan, MD, JD, *Professor of Anesthesiology, Department of Anesthesiology, University of Wisconsin, Madison, Wisconsin*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe the role of nitrous oxide in perioperative medicine; (2) Discuss evidence regarding nitrous oxide and perioperative cardiac events, homocysteine, neurotoxicity as well as nitrous oxide and postoperative pain; and (3) Gain insight into the risks and benefits associated with nitrous oxide.

* **WORKSHOPS**

W-03 • 8:00 am – 11:00 am**ULTRASOUND, SIMULATION AND STIMULATION FOR PERIPHERAL NERVE BLOCKS**

WORKSHOP LEADER: Andrew D. Rosenberg, MD, *Chief, Department of Anesthesiology, NYU Hospital for Joint Diseases, Executive Vice Chair, Department of Anesthesiology, NYU School of Medicine, Professor of Anesthesiology and Orthopedic Surgery, New York, New York*

WORKSHOP PRESENTERS:

Robert A. Altman, MD, *Clinical Associate Professor, New York University Langone Medical Center, New York, New York*

Levon M. Capan, MD, *Professor, Vice Chair and Associate Chief of Anesthesia, Department of Anesthesiology, New York University Langone Medical Center, New York, New York*

Jacques E. Chelly, MD, PhD, MBA, *Professor of Anesthesiology (with Tenure) and Orthopedic Surgery, Vice Chair of Clinical Research, Director, Regional and Orthopedic Fellowships Director, Division of Acute Interventional Perioperative Pain and Regional Anesthesia Department of Anesthesiology, University of Pittsburgh Medical Center, Director, Acute Interventional Perioperative Pain, UPMC Presbyterian- Shadyside Hospitals, Pittsburgh, Pennsylvania*

Sudheer K. Jain, MD, FACC, *Assistant Professor, Assistant Clinical Director, Department of Anesthesiology, New York University Langone Medical Center, New York, New York*

Jung T. Kim, MD, *Associate Professor, Vice Chair and Chief of Clinical Services, Department of Anesthesiology, New York University Langone Medical Center, New York, New York*

Sunmi Kim, MD, *Assistant Professor, Department of Anesthesiology, New York University Langone Medical Center, New York, New York*

Steven Lucas, MD, *Associate Faculty Member, Division of Regional Anesthesia and Pain Medicine, University of Florida, Gainesville, Florida*

Danielle Ludwin, MD, *Assistant Professor of Anesthesiology, Division of Orthopedic and Regional Anesthesia, Columbia University Medical Center, New York, New York*

Sylvia Wilson, MD, *Assistant Professor, Department of Anesthesiology and Perioperative Medicine, Division Chief of Regional Anesthesia Pain Medicine and Orthopedic Anesthesia, Medical University of South Carolina, Charleston, South Carolina*

During this 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 and as well as live models for demonstration.

LEARNER OBJECTIVES: After participating in this activity, the learner will: (1) Better recognize how to perform peripheral nerve blocks utilizing ultrasound guided and nerve stimulator techniques; and (2) Better describe how to perform blocks of the upper and lower extremity.

2:00 pm – 5:00 pm

Post-Traumatic Coagulopathy: Mechanisms and Treatment

Symposium Moderator

Jean-Francois Pittet, MD
University of Alabama at Birmingham, Birmingham, Alabama

2:00 – 2:15 pm

☀ **Overview and Introduction**

2:15 – 2:45 pm

☀ ***Interactions Between Inflammation and Coagulation After Severe Trauma***

Charles T. Esmon, PhD, *Lloyd Noble Chair in Cardiovascular Biology, Member, National Academy of Sciences, Investigator, Howard Hughes Medical Institute, Adjunct Professor, Departments of Biochemistry & Molecular Biology and Pathology, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma*

2:45 – 3:15 pm

☀ ***Role of the Protein C Pathway in the Development of Early Post-Traumatic Coagulopathy***

Jean-Francois Pittet, MD, *Director, Division of Critical Care and Perioperative Medicine, Professor and Vice Chair, Department of Anesthesiology, Professor, Department of Surgery, Professor, Department of Cell Biology, Investigator, Center for Lung Injury and Repair, University of Alabama at Birmingham, Birmingham, Alabama*

3:15 – 3:45 pm

☀ ***Age of Blood: Does it Matter for Resuscitation After Severe Trauma?***

Rakesh Pravinchandra Patel, PhD, *Professor, Molecular & Cellular Pathology, Department of Pathology, University of Alabama School of Medicine, University of Alabama at Birmingham, Birmingham, Alabama*

3:45 – 4:15 pm

☀ ***Therapeutic Approaches for Post-Traumatic Coagulopathy***

Bryan Alan Cotton, MD, MPH, *Associate Professor of Surgery, Division of Acute Care Surgery, Department of Surgery, The University of Texas Medical School at Houston, Houston, Texas*

4:15 – 5:00 pm

☀ ***Panel Discussion Q&A with Audience***

Learner Objectives:

After participating in this symposium, the learner will be able to:

- (1) Provide a review on the interactions between inflammation and coagulation abnormalities after severe trauma;
- (2) Present new data on the mechanisms of post-traumatic coagulopathy;
- (3) Review new information about the importance of erythrocyte age during massive transfusion of the severely traumatized patients; and
- (4) Review the current and future therapeutic approaches of post-traumatic coagulopathy.

Daily Schedule At-A-Glance

6:30 am – 11:00 am	Registration
7:00 am – 8:00 am	Problem-Based Learning Discussions
8:00 am – 11:00 am	Concurrent Education Sessions <ul style="list-style-type: none"> • Review Course Lectures • Panels • Workshop

★ PROBLEM-BASED LEARNING DISCUSSIONS

PBLD-01 • 7:00 – 8:00 am

THE RISKS OF ANESTHETIZING A CHILD WITH A URI

MODERATOR: Linda Mason, MD, *Professor of Anesthesiology, Program Director, Pediatric Anesthesia Fellowship, Loma Linda University, Loma Linda, California*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the anesthetic management strategies for the pediatric outpatient; (2) Discuss the preoperative evaluation of the child with URI; and (3) Discuss complications and treatment when anesthetizing the child with a URI.

PBLD-02 • 7:00 – 8:00 am

DILATION OF AN ESOPHAGEAL STRICTURE IN A TEENAGER WITH DUCHENNE MUSCULAR DYSTROPHY

MODERATOR: Premal Trivedi, MD, *Attending Physician, Department of Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois*

LEARNING OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the inheritance, pathophysiology, presenting symptoms, natural history, and medical management of Duchenne muscular dystrophy (DMD); (2) Anticipate the anesthetic concerns in managing patients with DMD, and appreciate how management concerns change as the patient ages; and (3) Appreciate the importance of communication with the patient and all members of the patient's medical team, particularly when managing the end-stage DMD patient.

PBLD-03 • 7:00 – 8:00 am

NOW THAT THE TRAIN HAS LEFT THE STATION: WHAT DOES HEALTHCARE REFORM MEAN TO ME?

MODERATOR: Thomas R. Vetter, MD, MPH, *Maurice S. Albin Professor, Vice Chair, Department of Anesthesiology, University of Alabama School of Medicine, Birmingham, Alabama*

LEARNER OBJECTIVES: Healthcare policy change is now a given in the United States, with resulting changes in health care access, models of care, and payment for services — including for anesthesia and surgery.

After participating in this activity, the learner will be able to answer: (1) How will the Patient Protection and Affordable Care Act (PPACA) — commonly referred to as “Obamacare” — and other CMS changes affect my practice and my patients?; (2) What do pay-for-performance and value-based purchasing mean for our own practices and for the specialty of Anesthesiology?; (3) How can we best position our own practices and our specialty to be part of a provider-based, integrated care organization with bundled payments?; and (4) What is the Perioperative Surgical Home? Why should, and if so, how can anesthesiologists play an important role in it?

PBLD-04 • 7:00 – 8:00 am

PERIOPERATIVE COGNITIVE MORBIDITY IN ELDERLY

MODERATOR: Deborah Culley, MD, *Assistant Professor, Harvard Medical School, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to answer: (1) What are the risk factors for the development of delirium in the postoperative period?; (2) What can be done to prevent the development of delirium in the postoperative period?; (3) What are the risk factors for the development of long-term cognitive decline in the postoperative period?; (4) What can be done to prevent the development of long-term cognitive decline following a surgical procedure?; and (5) What do you tell the family?

The sessions and presenters listed in this program are as of press time and subject to change

✱ REVIEW COURSE LECTURES

RCL-16 • 8:00 – 8:55 am

DON'T MAKE THINGS WORSE WITH YOUR VENTILATOR SETTINGS!

HOW YOU MANAGE THE LUNGS DURING THE INTRAOPERATIVE PERIOD AFFECTS YOUR POST-OPERATIVE OUTCOMES

PRESENTER: Peter Douglas Slinger, MD, *Professor of Anesthesia, University of Toronto, Toronto, Ontario, Canada*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the principles of lung-protective ventilation during surgery; (2) Identify patients at risk for perioperative lung injury; (3) Recognize the contributions of lung volume, airway pressure, inflammation and fluids to intraoperative lung injury; and (4) Appreciate strategies to manage patients with different end-stage lung disease requiring general anesthesia.

RCL-17 • 9:00 – 9:55 am

PHARMACOGENETICS AND PERSONALIZED MEDICINE: WHAT EVERY CLINICIAN SHOULD KNOW

PRESENTER: Peter Nagele, MD, MSc, *Assistant Professor, Washington University School of Medicine, Department of Anesthesiology and Genetics, St. Louis, Missouri*

LEARNER OBJECTIVES: This lecture will provide the practicing anesthesiologist and anesthesia team member up-to-date information about the importance of pharmacogenetics and personalized medicine. The lecture will be targeted to non-specialists and no background knowledge in genetics is required. It will focus on several clinically relevant examples where pharmacogenetics plays an important role in patient outcomes. Attendees will be presented with how the genetic background can influence drug metabolism, and the efficacy and toxicity of drug therapy. Examples such as warfarin, opioids, and beta-blockers will be discussed.

RCL-18 • 10:00 – 10:55 am

TIGHTEN YOUR BELTS! REDUCE YOUR TRANSFUSION COSTS WITH PRE-OPERATIVE MANAGEMENT OF ANEMIC PATIENTS

PRESENTER: Thomas R. Vetter, MD, MPH, *Maurice S. Albin Professor, Vice Chair, Department of Anesthesiology, University of Alabama School of Medicine, Birmingham, Alabama*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Define the current best practices in perioperative patient blood management; (2) Discuss the fundamentals of a preoperative anemia management program (PAMP); (3) Review the development and implementation of an anesthesia-based PAMP; (4) Discuss the role of an anesthesia-based PAMP in a perioperative surgical home model; and (5) Present a business model that demonstrates the cost savings and “added value” of a PAMP.

✱ PANELS



P-17 • 8:00 – 9:30 am

OPTIMIZING OUTCOMES

MODERATOR: Steven Butz, MD, *Medical College of Wisconsin and Surgicenter of Greater Milwaukee, Milwaukee, Wisconsin*

PANELISTS:

✱ Pre-Operative

Frances Chung, MBBS, FRCPC, *Professor, Department of Anesthesiology, University of Toronto, Medical Director, Ambulatory Surgical Unit and Combined Surgical Unit, Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada*

✱ Intra-Operative

Kumar Belani, MD, *Professor, Department of Anesthesiology, University of Minnesota, Minneapolis, Minnesota*

✱ Post-Operative

Steven Butz, MD, *Associate Professor of Anesthesiology, Medical College of Wisconsin, Medical Director, Surgicenter of Greater Milwaukee, Milwaukee, Wisconsin*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Screen for OSA and evaluate for risks; (2) Identify patient characteristics that can affect outcome without effective pre-operative management; (3) Identify medication and anesthesia management strategies to improve recovery; (4) Identify strategies to manage PONV; and (5) Enumerate factors associated with faster recovery.



P-18 • 9:30 – 11:00 am

CRITICAL CARE ISSUES ASSOCIATED WITH A PATIENT UNDERGOING A PARTIAL NEPHRECTOMY

MODERATOR: Vivek K. Moitra, MD, *Associate Clinical Professor of Anesthesiology, Associate Medical Director, Surgical Intensive Care Unit Associate Program Director, Critical Care Medicine Fellowship Division of Critical Care, Columbia University College of Physicians and Surgeons, New York, New York*

PANELISTS:

Phillip D. Lumb, MB, BS, MCCM, *Professor and Chair of Anesthesiology, Keck School of Medicine, University of Southern California, Los Angeles, California*

Avery Tung, MD, *Associate Professor of Anesthesia and Critical Care, Director of Critical Care Services, Burn Unit, The University of Chicago Burn and Complex Wound Center, Chicago, Illinois*

Joseph Meltzer, MD, *Associate Clinical Professor, Critical Care, Director, Critical Care Medicine Fellowship Program, Department of Anesthesiology, UCLA David Geffen School of Medicine, Los Angeles, California*

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the perioperative management of a hypothyroid patient; (2) Review and summarize the evidence for an etomidate induction; (3) Identify methods to manage unstable atrial fibrillation during the perioperative period; (4) Review and summarize the evidence for transfusions in the setting of acute anemia; (5) Discuss and review the utility of central venous pressure monitoring; and (6) Discuss the barriers to instituting and suspending DNR/DNI orders during the perioperative period.

*** Note: Attendees will be provided with audience feedback units and will be encouraged to participate in a real-time audience Q&A.**

WORKSHOP

W-04 • 8:00 am – 11:00 am

ULTRASOUND GUIDED ARTERIAL, CENTRAL AND PERIPHERAL VENOUS CANNULATION

WORKSHOP LEADER: NavParkash S. Sandhu, MD, *Director of Regional Anesthesia & Acute Pain, Department of Anesthesiology, UC San Diego School of Medicine, San Diego, California*

WORKSHOP PRESENTERS:

Charanjit Bahniwal, MD, *Department of Anesthesia, Cleveland Clinic, Cleveland, Ohio*

Dalia Banks, MD, *Associate Clinical Professor, UC San Diego, Director of Cardiac Anesthesia Fellowship, La Jolla, California*

Levon Capan, MD, *Professor, Vice Chair and Associate Chief of Anesthesia, Department of Anesthesiology, NYU, Langone Medical Center, New York, New York*

Amanda Monahan, MD, *Department of Anesthesiology, UC San Diego School of Medicine, San Diego, California*

Deepal Sidhu, MD, *Assistant Physician, Department of Anesthesiology, Kaiser Permanente, Santa Clara, California*

Preetham Suresh, MD, *Associate Clinical Professor, Department of Anesthesiology, UC San Diego School of Medicine, San Diego, California*

Mamta Thukral, MD, *Department of Anesthesiology, Kaiser Permanente, Santa Clara, California*

This workshop will provide attendees with a didactic introduction that includes:

- An introduction to ultrasound imaging
- A brief overview of various vascular techniques
- A review of pediatric vascular access

The hands-on demonstrations will cover:

- Knobology
- Arterial lines: Radial, Brachial, Axillary, Femoral and Dorsalis Pedis
- Central venous lines: Internal Jugular, Exterior Jugular, Axillary, Subclavian and Femoral
- Peripheral venous lines: Cephalic and basilica above elbow, long saphenous at knee and ankle, venae comitans
- Pediatric lines
- Central line phantom practice with real time imaging and in plane and out of plane methods

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the rationale for the use of two dimensional ultrasound to facilitate the placement of arterial, central venous catheters and peripheral venous access in patients with normal or difficult anatomy; (2) Identify the technology of ultrasound imaging of arteries, peripheral and central veins in 2D and color Doppler modes; and (3) increase awareness of application of 2D ultrasound to facilitate placement of central venous and peripheral veins and arterial lines.

Moderated Poster Discussion Rounds

Moderated Poster Discussion Rounds

Saturday, May 4

1:30 pm – 6:00 pm

Sunday, May 5

8:00 am – 5:00 pm

Monday, May 6

8:00 am – 1:00 pm

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LEARNER OBJECTIVES:

As a result of participating in this educational activity, learners will be able to describe recent advances in anesthesiology practice and patient care from the topic area and incorporate this new knowledge into their professional practice.

Saturday, May 4 • Moderated Poster Discussion Rounds

Airway Management – 1

Abstracts in Poster Discussion Round: S-1 – S-7

Presenters in Attendance: 1:30 pm – 3:00 pm

PR01-01

Poster Moderator: G. Djaiani, MD, *Toronto General Hospital, Toronto, Ontario, Canada*

S-1 NO-COST TSE “MASK” IMPROVES OXYGENATION AND REDUCES SEVERE DESATURATION IN PATIENTS WITH SEVERE DISEASES UNDER DEEP PROPOFOL SEDATION DURING UPPER GI ENDOSCOPY

K. Dauphinee¹, S. Cohen¹, S. Syed¹, C. W. Hunter¹, H. Razo², R. Alloteh¹, J. Tse¹

¹Anesthesia, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, New Jersey; ²Emergency Medicine, UMDNJ-New Jersey Medical School, Newark, New Jersey

S-2 A NOVEL MODIFICATION OF AN EXISTING ORAL AIRWAY TO DECREASE LIMITATIONS AND IMPROVE ON FIBEROPTIC INTUBATION

V. Le, S. Puri, S. Pisklakov

Department of Anesthesiology, UMDNJ - NJMS, Newark, New Jersey

S-3 AVAILABILITY OF GLIDESCOPE FOR NASOTRACHEAL INTUBATION IN THE PATIENTS WITH LIMITATION OF MOUTH OPENING

T. Kakutani, K. Nishikawa, K. Ejiri, H. Kurosaki, K. Nakahata

Anesthesiology, Wakayama Medical University, Wakayama City, Japan

S-5 RANDOMIZED CONTROL TRIAL COMPARING THE GLYDESCOPE AND MACINTOSH LARYNGOSCOPE FOR LEFT SIDED DOUBLE LUMEN ENDOTRACHEAL TUBE INTUBATION

A. E. Van Rensburg, A. Roscoe, P. Slinger, T. Russell

Anesthesia and Pain Management, Toronto General Hospital, University Health Network, University of Toronto, Toronto, Ontario, Canada

S-6 ULTRASONOGRAPHIC ASSESSMENT OF SUPERIOR AIRWAY DURING ENDOTRACHEAL INTUBATION WITH LARINGOSCOPY VERSUS LIGHTWAND

G. Franco, J. C. Kling, J. Franco

Anesthesia, CardioInfantil Foundation, Bogota, Colombia

S-7 COMPARISON OF BONFILS FIBEROSCOPE WITH BOUGIE ASSISTED LEFTMOLAR APPROACH FOR TRACHEAL INTUBATION IN PATIENTS WITH SIMULATED DIFFICULT AIRWAY

A. Gupta, S. Thukral

Anesthesiology and Intensive Care, ESI, Hospital, Okhla Phase 1, New Delhi, India

Anesthetic Pharmacology 1

Abstracts in Poster Discussion Round: S-37 – S-41

Presenters in Attendance: 1:30 pm – 3:00 pm

PR01-02

Poster Moderator: F. Donati, PhD, MD, FRCPC, *Université de Montréal, Quebec, Canada*

S-37 THE INTRAVASCULAR PERSISTENCE OF CRYSTALLOID SOLUTIONS AND COLLOID SOLUTIONS WERE EXAMINED BY SPHB

S. Tamagaki, Y. Segawa, Y. Matuoka

Anesthesia, NTT West Japan Osaka Hospital, Osaka, Japan

S-38 DELIVERY OF INTRAVENOUS SEVOFLURANE BY FLUOROUS EMULSION FOR ANESTHESIA IN RHESUS MACAQUES

C. L. Parks¹, K. T. Simmons², K. G. Brunner³, S. Mecozzi², R. A. Pearce¹, S. Lopukhin¹

¹University of Wisconsin School of Medicine and Public Health, Madison, WI; ²University of Wisconsin-Madison School of Pharmacy, Madison, WI; ³National Primate Research Center, University of Wisconsin-Madison, Madison, Wisconsin

S-39 CONTINUOUS ADMINISTRATION OF LANDIOLOL DURING GENERAL ANESTHESIA FOR HEPATECTOMY INCREASES PLASMA EPINEPHRINE CONCENTRATIONS BUT DOES NOT AFFECT THE MAGNITUDE OF TACHYCARDIA AFTER TRACHEAL EXTUBATION

M. Itani, T. Tatara, K. Hashimoto, H. Shii, M. Hirose

Hyogo College of Medicine, Nisinomiya, Japan

S-40 TRANEXAMIC ACID ATTENUATES POSTOPERATIVE HEMOGLOBIN DROP IN ELDERLY PATIENTS UNDERGOING TOTAL HIP ARTHROPLASTY: A RETROSPECTIVE MATCHED PAIR STUDY

H. El Beheiry^{1,2}, A. Lubberdink¹, N. D. Clements^{3,4}, V. Sharma³, K. Dhillon³

¹Anesthesia, Trillium Health Centre, Mississauga, Ontario, Canada;

²Anesthesia, University of Toronto, Toronto, Ontario, Canada;

³Orthopedics, Trillium Health Centre, Mississauga, Ontario, Canada;

⁴Orthopedics, University of Toronto, Toronto, Ontario, Canada

S-41 IMPACT OF SEVOFLURANE AND ISOFLURANE ON PERIOPERATIVE HEMOSTASIS AND INFLAMMATORY RESPONSE DURING OPEN AND LAPAROSCOPIC SURGERIES

Y. Samhan¹, H. F. Khafagy¹, N. Hussein², M. Madkour²,

O. Mahmoud², E. Osman¹, M.A. Maher¹

¹Anesthesia, Theodor Bilharz Research Institute, Giza, Egypt;

²Hematology, Theodor Bilharz Research Institute, Giza, Egypt

Moderated Poster Discussion Rounds • Saturday, May 4

Cardiovascular Anesthesiology 1

Abstracts in Poster Discussion Round: S-67 – S-71

Presenters in Attendance: 1:30 pm – 3:00 pm

PR01-03

Poster Moderator: W. van Klei, MD, PhD, UMC Utrecht, Utrecht, Netherlands

S-67 INTRALIPID REVERSES VASODILATION AND HYPOTENSION DUE TO PROPOFOL IN AGING RATS

F. S. Gragasin^{1,3}, S. L. Bourque², S. T. Davidge^{2,3}

¹Anesthesiology and Pain Medicine, University of Alberta, Edmonton, Alberta, Canada; ²Obstetrics and Gynecology, University of Alberta, Edmonton, Alberta, Canada; ³Physiology, University of Alberta, Edmonton, Alberta, Canada

S-68 TEACHING ECHOCARDIOGRAPHY TO ANESTHESIOLOGY RESIDENTS – THE UNIVERSITY OF UTAH EXPERIENCE

J. DeCou, T. J. Holmberg, J. Zimmerman, G. Desjardins, D. P. Vezina, M. Cahalan

Department of Anesthesiology, University of Utah, Salt Lake City, Utah

S-69 INTRA-AORTIC PROTAMINE ADMINISTRATION AFTER CARDIOPULMONARY BYPASS RESULTS IN IMPROVED HEMODYNAMICS AND ALVEOLAR-ARTERIAL GRADIENT

R. Dhawan¹, J. D. Roberts¹, E. J. Negron², M. A. Chaney¹

¹Anesthesia and Critical Care, University of Chicago, Chicago, Illinois; ²Surgery, University of Chicago Medical Center, Chicago, Illinois

S-70 HIGH GLUCOSE ATTENUATES ANESTHETIC PRECONDITIONING IN HUMAN CARDIOMYOCYTES FROM NON-DIABETIC AND DIABETIC STEM CELLS

S. Canfield^{1,2}, D. Twaroski^{1,2}, C. Kikuchi¹, X. Bai¹, A. Stadnicka¹, Z. J. Bosnjak^{1,2}

¹Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin; ²Physiology, Medical College of Wisconsin, Milwaukee, Wisconsin

S-71 DERIVATION AND VALIDATION OF RISK INDEX FOR PREDICTION OF INTRAOPERATIVE CARDIAC ARRESTS IN NONCARDIAC SURGERY

S. Goswami¹, J. E. Brady¹, G. Li^{1,2}

¹Anesthesiology, College of Physician & Surgeons of Columbia University, New York, New York; ²Epidemiology, Mailman School of Public Health, Columbia University, New York, New York

Challenging Case Reports 1

Abstracts in Poster Discussion Round: CC-100– CC-103

Presenters in Attendance: 1:30 pm – 3:00 pm

PR01-04

Poster Moderator: D. Bustamante, MD, University of Tennessee, Graduate School of Medicine, Knoxville, Tennessee

CC-100 ANESTHETIC MANAGEMENT FOR A PATIENT WITH MITOCHONDRIAL METABOLIC DISORDER

E. Lindstrom, A. F. Attaallah

Department of Anesthesiology, West Virginia University, Morgantown, West Virginia

CC-101 THE USE OF INVASIVE MONITORING IN SEVERE AORTIC STENOSIS WITH ATRIAL FIBRILLATION FOR NON-CARDIAC SURGERY: A CHALLENGING CASE REPORT

Q. Zhang^{1,2}, T. C. Mort¹, L. Di Pasquale³

¹Anesthesiology, Hartford Hospital, Hartford, Connecticut; ²Anesthesiology, University of Connecticut Health Center, Farmington, Connecticut; ³Oral & Maxillofacial Surgery, University of Connecticut Health Center, Farmington, Connecticut

CC-102 PLASTIC BRONCHITIS: THE USE OF CARDIOPULMONARY BYPASS FOR EXPLORATORY THORACIC SURGERY

L. Ryan, M. Aguirre, I. Gasanova

Anesthesiology, University of Texas Southwestern Medical Center, Dallas, Texas

CC-103 AN UNUSUAL CASE OF HYPOXEMIA

D. Roberman

Anesthesiology, Hahnemann University Hospital, Philadelphia, Pennsylvania

Critical Care, Trauma and Resuscitation 1

Abstracts in Poster Discussion Round: S-99– S-104

Presenters in Attendance: 1:30 pm – 3:00 pm

PR01-05

Poster Moderator: M. Afifi, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois

S-99 THERAPEUTIC EFFECTS OF BROMVALERYLUREA ON SEPSIS-INDUCED RESPIRATORY FAILURE OF RATS BY IMMUNOSUPPRESSION OF ALVEOLAR MACROPHAGES

T. Nishihara^{1,2}, S. Kikuchi³, M. Aibiki³, T. Yorozuya¹, T. Nagao¹, J. Tanaka²

¹Department of Anesthesiology and Resuscitology, Graduate School of Medicine, Ehime University, Toon, Ehime, Japan; ²Department of Molecular and Cellular Physiology, Graduate School of Medicine, Ehime University, Toon, Ehime, Japan; ³Department of Emergency Medicine, Graduate School of Medicine, Ehime University, Toon, Ehime, Japan

PR01-05, continued

S-101 HYPERCOAGULABILITY DETECTED WITH ROTATIONAL THROMBOELASTOMETRY AFTER VENTRICULAR ASSIST DEVICE IMPLANTATION

G. Wagener, A. M. Hincker, J. Feit, R. Sladen

Anesthesiology, Columbia University, New York, New York

S-102 A RETROSPECTIVE STUDY OF 30 DAY MORTALITY AFFECTED BY DEMOGRAPHIC AND CLINICAL FACTORS IN ELDERLY PATIENTS UNDERGOING PROLONGED ANESTHESIA FOR NON-CARDIAC SURGERIES

M. M. Joseph, R. Kharkar, C. Chung, B. Chinn, N. Martirosyan, Z. Meliksetyan

Anesthesiology, Keck School of Medicine of USC, Los Angeles, California

S-103 ASSOCIATION BETWEEN USE OF DEXMEDETOMIDINE AS A SEDATIVE AND RISK OF DELIRIUM AMONG PATIENTS WHO ARE MECHANICALLY VENTILATED: A SYSTEMATIC REVIEW AND META-ANALYSIS

F. Yamazaki¹, H. Tokumasu², K. Kuwajima³, T. Sato⁴, T. Kawamura¹, T. Furukawa⁵

¹Department of Preventive Services, Kyoto University Graduate School of Medicine/School of Public Health, Kyoto, Japan;

²Department of Pharmacoepidemiology, Kyoto University Graduate School of Medicine/School of Public Health, Kyoto, Japan;

³Department of Anesthesiology, Faculty of Medicine, The University of Tokyo, Tokyo, Japan; ⁴Department of Anesthesiology and Intensive Care, National Cancer Center Hospital, Tokyo, Japan; ⁵Department of Health Promotion and Human Behavior, Kyoto University Graduate School of Medicine / School of Public Health, Kyoto, Japan

S-104 EVALUATION OF THE MULTIPLE COAGULATION TEST SYSTEM (MCTS™) TO GUIDE TREATMENT OF BLEEDING DISORDERS

S. Goldstein^{1,2}, F. Mamdani², M. T. Kagan^{1,3}, J. Kelleher⁴, A. Castro⁵, S. Shulman²

¹Coagulation Sciences LLC, Riverdale, New York; ²Anesthesiology, New Jersey Medical School, Newark, New Jersey; ³M. Kagan and Associates, Dover-Foxcroft, Maine; ⁴Anesthesiology, Mount Sinai School of Medicine, New York, New York; ⁵Preventive Medicine and Community Health, UMDNJ-New Jersey Medical School, Newark, New Jersey

Neuroscience in Anesthesiology and Perioperative Medicine 1

Abstracts in Poster Discussion Round: S-171– S-174

Presenters in Attendance: 1:30 pm – 3:00 pm

PR01-06

Poster Moderator: R. Craft, MD, *University of Tennessee, Graduate School of Medicine, Knoxville, Tennessee*

S-171 MOBILISATION TO THE RESTROOM IN THE RECOVERY ROOM REDUCES THE NUMBER OF IN-OUT CATHETERIZATION AFTER SPINE SURGERY. A PROSPECTIVE AND RANDOMIZED STUDY.

A. Hansen, K. S. Olsen

Department of Anesthesiology, Glostrup Hospital, Glostrup, Denmark

S-172 ISOFLURANE OVERCOMES DEFECTIVE PROGRAMMED CELL DEATH IN THE DEVELOPING BRAIN OF AUTISTIC MICE

R. J. Levy, Y. Cheng

Children's National Medical Center, Washington, DC

S-173 SEVOFLURANE MAY NOT INDUCE LONG-TERM TOXICITY IN ALZHEIMER'S DISEASE TRANSGENIC DROSOPHILA

C. Chen^{1,2}, W. Lin³, K. Chen¹, H. Liu⁴, Y. Wu⁵, Y. Kuo^{6,7}, C. Li^{1,2}

¹Department of Anesthesiology, China Medical University Hospital, Taichung, Taiwan; ²Graduate Institute of Clinical Medical Science, China Medical University, Taichung, Taiwan; ³Institute of Integrated Medicine, China Medical University, Taichung, Taiwan; ⁴Graduate Institute of Acupuncture Science, China Medical University, Taichung, Taiwan; ⁵Graduate Institute of Chinese Medicine, China Medical University, Taichung, Taiwan; ⁶Department of Radiation Oncology, China Medical University Hospital, Taichung, Taiwan; ⁷Department of Biomedical Imaging and Radiological Science, China Medical University, Taichung, Taiwan

S-174 USE OF ANTIFIBRINOLYTIC AGENTS TO REDUCE BLOOD LOSS IN MAJOR SPINE SURGERY: A SURVEY OF ACADEMIC ANESTHESIOLOGISTS

F. A. Wolf, M. Rollins, J. Lieberman

Anesthesia and Perioperative Care, UCSF, San Francisco, California

Moderated Poster Discussion Rounds • Saturday, May 4

Challenging Case Reports 3

Abstracts in Poster Discussion Round: CC-109 – CC-113

Presenters in Attendance: 3:00 pm – 4:30 pm

PR01-07

Poster Moderator: E. Holak, MD, PharmD, *Medical College of Wisconsin, Milwaukee, Wisconsin*

CC-109 ANESTHETIC ISSUES WITH EMERY-DREIFUSS MUSCULAR DYSTROPHY

C. W. Phillips, A. N. Farag

Anesthesiology, Texas Tech Health Science Center, Lubbock, Texas

CC-110 MODIFIED INTERSCALENE NERVE BLOCK IN A PATIENT WITH PREVIOUS TAPIA'S SYNDROME

S. Sugeir, I. Gasanova, G. Joshi

Anesthesiology and Pain Management, University of Texas Southwestern, Dallas, Texas

CC-111 SYSTEMATIC APPROACH TO A DECANULATED TRACHEOSTOMY IN A PATIENT WITH A DIFFICULT AIRWAY FOLLOWING TRAUMA

J. Strebel¹, T. C. Mort^{2,1}, J. B. Gross¹

¹University of Connecticut Health Center, Farmington, Connecticut;

²Hartford Hospital, Hartford, Connecticut

CC-112 DETECTING ARTERIAL BLOOD WITH UNUSUAL HIGH CVP IN THE LEFT BRACHIOCEPHALIC VEIN IN A PATIENT WITH LEFT UPPER ARM AVF- CHALLENGING CASE REPORT

Z. Jaji-Drew, T. Phung, A. Elsbarydah

Anesthesiology and Pain Management, UT Southwestern Medical Center, Dallas, Texas

CC-113 EPTIFIBATIDE AS BRIDGING ANTI-PLATELET THERAPY PRIOR TO LUMBAR CEREBROSPINAL FLUID DRAINAGE FOR TEVAR

H. Y. Wong, S. Sherwani

Anesthesiology, Northwestern University, Chicago, Illinois

Critical Care, Trauma and Resuscitation 2

Abstracts in Poster Discussion Round: S-105 – S-108

Presenters in Attendance: 3:00 pm – 4:30 pm

PR01-08

Poster Moderator: M. Dworschak, MD, MBA, *University of Vienna, Vienna, Austria*

S-105 HYPERCAPNIC ACIDOSIS INHIBIT LUNG VASCULAR MECHANOTRANSDUCTION AND ASSOCIATED INCREASE IN FILTRATION CO-EFFICIENT

R. O. Dull^{1,2}, A. Isbatan¹, N. K. Bommakanti^{1,2}

¹Anesthesiology, University of Illinois at Chicago, Chicago, Illinois;

²Bioengineering, University of Illinois Chicago, Chicago, Illinois

S-106 SYSTEM-WIDE ANALYSIS OF THE ENDOGENOUS IMMUNE RESPONSE TO SURGICAL TRAUMA USING MASS CYTOMETRY (CYTOF)

B. Gaudilliere^{1,2}, G.K. Fragiadakis², G. Nolan², M.S. Angst¹

¹Department of Anesthesia, Stanford University, Palo Alto, California;

²Microbiology and Immunology, Stanford University, Palo Alto, California

S-107 EFFECTS OF POSITIVE END EXPIRATORY PRESSURE VENTILATION IN THE PRONE POSITION WITH THE UPPER TORSO RAISED AND LEGS LOWERED ON RESPIRATORY FUNCTION DURING GENERAL ANESTHESIA IN BURN PATIENTS WITH INHALATIONAL LUNG INJURY

Q. W. Fan¹, L. Gong¹, Q. Xue¹, B. Yu¹, R. Eltringham^{1,2}

¹Department of Anesthesiology, Rui Jin Hospital, School of Medicine, Shanghai Jiao Tong University, Shanghai, China;

²Department of Anaesthesia, Gloucestershire Royal Hospital, Gloucestershire, United Kingdom

S-108 PREDICTION OF WEANING OUTCOME: VESIBILITY OF AUTOMATIC TUBE COMPENSATION (ATC) FOR WEANING OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD) PATIENTS FROM MECHANICAL VENTILATION

A. A. Sherif, H. A. Atalaah

Anesthesia, Surgical Intensive Care, and Pain Medicine, El-Menoufiya University, Faculty of Medicine, Alexandria, Egypt

Saturday, May 4 • Moderated Poster Discussion Rounds

Liver – 1

Abstracts in Poster Discussion Round: S-162 – S-164

Presenters in Attendance: 3:00 pm – 4:30 pm

PR01-09

Poster Moderator: E. Nemergut, MD, *University of Virginia Health System, Charlottesville, Virginia*

S-162 EFFECT OF POSTOPERATIVE EPIDURAL BOLUS CONCENTRATION ON PAIN CONTROL AND FLUID REQUIREMENTS AFTER HEPATIC RESECTION

J. Soliz¹, T. Aloia², R. M. Thomas², M. J. Truty³, L. Feng⁴, H. Wang⁴, V. Gottumukkala¹

¹Anesthesiology and Perioperative Medicine, Maryland Anderson Cancer Center, Houston, Texas; ²Surgical Oncology, Maryland Anderson Cancer Center, Houston, Texas; ³Gastroenterologic and General Surgery, Mayo Clinic, Rochester, Minnesota; ⁴Department of Biostatistics, Maryland, Anderson Cancer Center, Houston, Texas

S-163 BIOCHEMICAL CHANGES FOLLOWING MASSIVE TRANSFUSION OF BLOOD MIXTURE IN ADULT LIVER TRANSPLANTATION RECIPIENTS

H. Kim, K. Nam, H. Lee, H. Ryu, C. Jung

Seoul National University Hospital, Seoul, Republic of Korea

S-164 IMPACT OF DIABETES ON INTRAOPERATIVE BLOOD GLUCOSE AND OUTCOMES IN LIVER TRANSPLANT RECIPIENTS

J. Hudcova^{1,2}, R. Ruthazer², I. Bonney², R. Schumann²

¹Department of Surgical Critical Care, Lahey Clinic, Burlington, Massachusetts; ²Tufts Medical Center, Boston, Massachusetts

Obstetric Anesthesiology 1

Abstracts in Poster Discussion Round: S-203 – S-208

Presenters in Attendance: 3:00 pm – 4:30 pm

PR01-10

Poster Moderator: M. L. Riess, MD, PhD, *Medical College of Wisconsin, Milwaukee, Wisconsin*

S-203 ANESTHETIC MANAGEMENT OF A LABORING PARTURIENT WITH MITRAL STENOSIS

C. Choi, O. Bogatyryova, W. Bethune, K. Tyagaraj, N. Younger

Department of Anesthesiology, Maimonides Medical Center, Brooklyn, New York

S-204 VON GIERKE DISEASE AND PERIOPERATIVE CARE OF THE PARTURIENT

M. E. Graham, P. McConville

Anesthesiology, University of Tennessee Medical Center, Knoxville, Tennessee, Knoxville, Tennessee

S-205 INTRAVENOUS ONDANSETRON GRANISETRON AND RAMOSETRON FOR PREVENTION OF POSTOPERATIVE NAUSEA AND VOMITING IN PATIENTS UNDERGOING LSCS: A COMPARATIVE STUDY

K. K. Sahare, R. Naik, S. Agrawal

Anaesthesiology and Critical Care, Pt. J N M Medical College, Raipur, India

S-207 BRAIN STEM ANESTHESIA FOLLOWING EPIDURAL BLOCK FOR CESAREAN SECTION

P. Shapiro, S. Cohen, A. Mohiuddin, S. Shah, C. W. Hunter, N. Kumar

Anesthesia, Robert Wood Johnson University Hospital-UMDNJ, New Brunswick, New Jersey

S-208 A COMPARISON OF GRAVITY FLOW EPIDURAL BLOCK WITH COMBINED SPINAL EPIDURAL (CSE) FOR CESAREAN SECTION

H. Shaikh, S. Cohen, S. Shah, T. Shkolnikova, A. Mohiuddin, P. Shapiro, R. Chhokra

Anesthesia, Robert Wood Johnson University Hospital-UMDNJ, New Brunswick, New Jersey

Pain Mechanisms 1

Abstracts in Poster Discussion Round: S-226 – S-228

Presenters in Attendance: 3:00 pm – 4:30 pm

PR01-11

Poster Moderator: K. Candiotti, MD, *University of Miami School of Medicine, Miami, Florida*

S-226 INTRATHECAL ADMINISTRATION OF CALCINEURIN PROVIDES PROLONGED ANALGESIA FOLLOWING CHRONIC CONSTRICTION INJURY OF THE SCIATIC NERVE IN RATS

G. Miletic, J. L. Hermes, G. L. Bosscher, V. Miletic

Anesthesiology, University of Wisconsin, Madison, Wisconsin

S-228 INSULIN-INDUCED HYPOGLYCEMIA CAUSES ACUTE PAINFUL NEUROPATHY IN NON-DIABETIC MICE

K. A. Candiotti, L. Gil, S. Mei, Y. F. Rodriguez Blanco, Y. Zhang

Anesthesiology, University of Miami, Miami, Florida

Pediatric Anesthesiology 1

Abstracts in Poster Discussion Round: S-312 – S-316

Presenters in Attendance: 3:00 pm – 4:30 pm

PR01-12

Poster Moderator: S. Verghese, MD, *Children's National Medical Center, Washington, DC*

S-312 COMPARATIVE STUDY OF PERIOPERATIVE COMPLICATIONS WITH NISSEN FUNDOPLICATION: LAPAROSCOPY VS. LAPAROTOMY PROCEDURE

J. Ishio, R. Okutani

Anesthesiology, Osaka City General Hospital, Osaka, Japan

S-313 ANALGESIC EFFICACY OF ORAL VERSUS INTRAVENOUS ACETAMINOPHEN FOR PRIMARY PEDIATRIC CLEFT PALATE REPAIR: A RANDOMIZED, DOUBLE-BLINDED, PLACEBO-CONTROLLED STUDY

R. Applegate¹, J. Ratsiu¹, C. Malmberg¹, N. Singh¹, L. Mason¹, A. O. Ray², M. Martin²

¹Anesthesiology, Loma Linda University School of Medicine, Loma Linda, California; ²Plastic and Reconstructive Surgery, Loma Linda University School of Medicine, Loma Linda, California

S-314 PRE-EXISTING COGNITIVE IMPAIRMENT IS NOT ASSOCIATED WITH FURTHER SPATIAL LEARNING AND MEMORY DEFICIT FOLLOWING ISOFLURANE EXPOSURE IN P7 RAT PUPS

M. M. Pace^{1,4}, C. D. Bub², J. M. O'Donnell², K. Jenks³, G. L. Holmes^{3,4}, R. Scott^{3,4}, S. C. Hillier^{1,4}

¹Anesthesiology, Dartmouth Hitchcock Medical Center, Lebanon, NH; ²Dartmouth College, Hanover, New Hampshire; ³Neurology, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire; ⁴Geisel School of Medicine at Dartmouth College, Hanover, New Hampshire

S-315 PREDICTING EXCESSIVE HEMORRHAGE IN AIS-PSIF

M. E. Thompson^{1,4}, J. Hansen^{5,4}, K. McFann², B. McNair², N. Miller³

¹Pediatric Anesthesiology, Covenant Children's Hospital, Lubbock, Texas; ²Colorado Biostatistics Consortium, University of Colorado, Aurora, Colorado; ³Orthopedics, University of Colorado, Aurora, Colorado; ⁴Anesthesiology, University of Colorado, Aurora, Colorado; ⁵Anesthesiology, The University of Kansas, Kansas City, Kansas

S-316 ANESTHESIA FOR SURGERY EARLY IN LIFE IS ASSOCIATED WITH SUBSEQUENT DIMINISHED IQ, DELAYED LANGUAGE DEVELOPMENT, AND LONG-TERM BRAIN STRUCTURAL CHANGES IN CHILDREN

A. W. Loepke¹, B. Backeljauw², M. Altaye⁴, S. K. Holland^{2,3}

¹Department of Anesthesiology, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio; ²Pediatric Neuroimaging Research Consortium, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio; ³Department of Radiology, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio; ⁴Division of Biostatistics and Epidemiology, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio

Ambulatory Anesthesia 2

Abstracts in Poster Discussion Round: S-27 – S-31

Presenters in Attendance: 4:30 pm – 6:00 pm

PR01-13

Poster Moderator: M. Ozaki, MD, PhD, *Tokyo Women's Medical University, Tokyo, Japan*

S-27 INTRAVENOUS ACETAMINOPHEN VS KETOROLAC FOR POST-OPERATIVE ANALGESIA AFTER AMBULATORY PARATHYROIDECTOMY

E. Camporesi^{1,2}, A. Anand², D. Mangar², C. J. Sprenker², R. A. Karlinski^{1,2}, B. Miladinovic³

¹Surgery, University of South Florida, Tampa, Florida; ²Florida Gulf to Bay Anesthesiology Associates LLC, Tampa, Florida; ³Center for Evidence Based Medicine, University of South Florida, Tampa, Florida

S-28 ANALGESIC AND MORPHINE-SPARING EFFECTS OF THE PERIPHERALLY-RESTRICTED KAPPA OPIOID AGONIST CR845 AFTER INTRAVENOUS ADMINISTRATION IN WOMEN UNDERGOING A LAPAROSCOPIC HYSTERECTOMY

T. Gan¹, J. B. Jones², R. Schuller², F. Menzaghi², S. O'Connor², R. Spencer², D. Chalmers²

¹Duke University, Durham, North Carolina; ²Cara Therapeutics, Inc., Shelton, Connecticut

S-29 QUALITY OF SURGICAL FIELD DURING ENDOSCOPIC SINUS SURGERY-A COMPARISON OF PROPOFOL AND DESFLURANE

S. Arora, R. Chauhan, S. Malhotra, A. Gupta

Department of Anaesthesia & Intensive Care, Postgraduate Institute of Medical Education & Research, Chandigarh, India

S-30 CARDIAC COMPLICATIONS AND STROKES IN VASCULAR SURGICAL PATIENTS. WHAT ARE WE MISSING?

S. Setty, S. Nair, S. Ramachandran, N. Abitbol

Anesthesiology, Montefiore Medical Center, Bronx, New York

S-31 COMPLICATION RATE AND HEMODYNAMIC CHANGES AFTER UNSEDATED ESOPHAGOGASTRODUODENOSCOPY IN ELDERLY PATIENTS

S. Amornyotin, S. Kongphlay

Anesthesiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

Critical Care, Trauma and Resuscitation 5
Abstracts in Poster Discussion Round: S-121 – S-126
Presenters in Attendance: 4:30 pm – 6:00 pm

PR01-14

Poster Moderator: G. Wagener, MD, *College of Physicians & Surgeons of Columbia University, New York City, New York*

S-121 SINGLE DOSE APT102 ATTENUATES ACUTE LUNG INJURY

C. A. Puyo¹, C. Hantler¹, S. Jeong², R. Chen², A. Gelman¹

¹Anesthesiology, Washington University St. Louis, St. Louis, Missouri;

²APT Therapeutics, St Louis, Missouri

S-122 “[H]E’S GOING TO HAVE TO MAKE A LOT OF ADJUSTMENTS”: INTENSIVIST AND SURGEON-IDENTIFIED THEMES CONCERNING LONG-STAY SURGICAL ICU PATIENTS

J. Reardon¹, J. Peters², W. Aung³, K. L. Shannon⁴, L. Redstone³, R. Aslakson¹

¹Anesthesiology and Critical Care Medicine, The Johns Hopkins Hospital, Baltimore, Maryland; ²Surgery-Surgical Nursing Administration, The Johns Hopkins Hospital, Baltimore, Maryland;

³The Johns Hopkins School of Public Health, Baltimore, Maryland;

⁴The Johns Hopkins School of Medicine, Baltimore, Maryland

S-123 EARLY CHANGES OF NITRIC OXIDE METABOLITES IN THE EXHALED BREATH CONDENSATE OF HEALTHY VENTILATED PATIENTS DURING ELECTIVE KNEE REPLACEMENT

A. Fernandez-Bustamante^{1,2}, J. Klawitter^{1,3}, A. Agazio^{1,2}, A. Janocha⁴, S. Erzurum⁴, J. E. Repine^{2,5}, T. Sere¹

¹Anesthesiology Dept., University of Colorado SOM, Aurora, Colorado; ²Webb Waring Center, University of Colorado SOM, Aurora, Colorado; ³iC42 Integrated Solutions in Systems Biology, University of Colorado SOM, Aurora, Colorado; ⁴Department of Pathobiology, The Cleveland Clinic Foundation, Lerner Research Institute, Cleveland, Ohio; ⁵Department of Medicine, University of Colorado SOM, Aurora, Colorado

S-124 LEVEL OF COMPLIANCE WITH THE ENHANCED RECOVERY AFTER SURGERY (ERAS) PROTOCOL AND POSTOPERATIVE OUTCOMES

T. Gan¹, T. Miller¹, F. R. Ernst², M. R. Kruk²

¹Duke University, Durham, North Carolina; ²Premier Research Services, Charlotte, North Carolina

S-125 HYALURONAN MODULATES VASCULAR MECHANOTRANSDUCTION IN THE INTACT LUNG

N. K. Bommakanti^{1,2}, A. Isbatan², R. O. Dull^{2,1}

¹Bioengineering, University of Illinois at Chicago, Chicago, Illinois;

²Anesthesiology, University of Illinois at Chicago, Chicago, Illinois

S-126 GDF-15 DAMPENS VENTILATOR-INDUCED LUNG INJURY BY INHIBITING THE FORMATION OF INTEGRIN-MEDIATED PLATELET-NEUTROPHIL AGGREGATES

J. Rossaint^{1,3}, A. Stadtmann^{1,2}, H. Block^{1,2}, J. M. Herter^{1,2}, H. Van Aken¹, A. Zarbock^{1,2}

¹Department of Anaesthesiology, Intensive Care and Pain Medicine, University Hospital Münster, Münster, Germany; ²Max Planck Institute for Molecular Biomedicine, Münster, Germany;

³Interdisciplinary Centre for Clinical Research (IZKF), Münster, Germany

Economics, Education and Policy 4
Abstracts in Poster Discussion Round: S-152 – S-156
Presenters in Attendance: 4:30 pm – 6:00 pm

PR01-15

Poster Moderator: G. de Oliveira Filho, MD, PhD, *Hospital Governador Celso Ramos, Florianópolis, Brazil*

S-152 ENHANCED RECOVERY AFTER SURGERY (ERAS) PROGRAM IS ASSOCIATED WITH REDUCED HOSPITALIZATION COSTS

T. Gan¹, F. R. Ernst², M. R. Kruk², T. Miller¹

¹Duke University, Durham, North Carolina; ²Premier Research Services, Charlotte, North Carolina

S-153 A 25-YEAR ASSESSMENT OF THE AMERICAN SOCIETY OF ANESTHESIOLOGISTS PHYSICAL STATUS (ASA-PS) CLASSIFICATION: UNCERTAINTY AND THE “UPCODING” OF OBESE PATIENTS

C. H. Guerry, C. U. Arancibia, J. F. Butterworth

Anesthesiology, Virginia Commonwealth University, Richmond, Virginia

S-154 PREOPERATIVE CONSULTATIONS FOR MEDICARE PATIENTS UNDERGOING CATARACT SURGERY

S. Thilen¹, M. M. Treggiari¹, J. Lange², E. M. Weaver³, D. Wijeyesundera⁴

¹Department of Anesthesiology & Pain Medicine, University of Washington, Seattle, Washington; ²Department of Biostatistics, University of Washington, Seattle, Washington; ³Department of Otolaryngology – Head and Neck Surgery, University of Washington, Seattle, Washington; ⁴Department of Anesthesia, University of Toronto, Toronto, Ontario, Canada

S-155 DRUG WASTE IN ANESTHESIA: OPPORTUNITIES FOR EFFICIENCY AND SAFETY

C. Hamby, E. O. Bryson

Anesthesiology, The Mount Sinai Hospital, New York, New York

S-156 WHAT DO YOU KNOW ABOUT STAGE II: A SURVEY OF ANESTHESIOLOGISTS IN A MAJOR MEDICAL CENTER

R. Roth

Anesthesiology, Mount Sinai School of Medicine, New York, New York

Neuroscience in Anesthesiology and Perioperative Medicine 2

Abstracts in Poster Discussion Round: S-175 – S-180

Presenters in Attendance: 4:30 pm – 6:00 pm

PR01-16

Poster Moderator: G. Crosby, MD, Brigham and Women's Hospital, Boston, Massachusetts

S-175 CHANGE OF CIRCULATORY PARAMETERS DURING CAROTID ARTERY STENTING

M. Kato

International University of Health & Welfare, Yaita, Japan

S-176 NITROUS OXIDE IMPAIRS AXONAL REGENERATION IN DORSAL ROOT GANGLIA

K. J. Stewart², B. M. Meier¹, B. J. Iskandar², N. Hariharan², E. B. Rizk⁴, A. Andrei³, K. Hogan¹

¹Anesthesiology, University of Wisconsin - Madison, Madison, Wisconsin; ²Neurosurgery, University of Wisconsin - Madison, Madison, Wisconsin; ³Biostatistics, Northwestern University, Chicago, Illinois; ⁴Neurosurgery, Pennsylvania State University, Hershey, Pennsylvania

S-177 NITROUS OXIDE IMPAIRS AXONAL REGENERATION IN THE SPINAL CORD

B. M. Meier¹, K. J. Stewart², E. B. Rizk⁴, N. Hariharan², A. Andrei³, B. J. Iskandar², K. Hogan¹

¹Anesthesiology, University of Wisconsin - Madison, Madison, Wisconsin; ²Neurosurgery, University of Wisconsin - Madison, Madison, Wisconsin; ³Biostatistics, Northwestern University, Chicago, Illinois; ⁴Neurosurgery, Pennsylvania State University, Hershey, Pennsylvania

S-178 KETAMINE INDUCES NEURONAL AUTOPHAGY AND APOPTOSIS VIA REACTIVE OXYGEN SPECIES-MEDIATED MITOCHONDRIAL PATHWAY

X. Bai, Y. Yan, S. Canfield, C. Kikuchi, I. Zaja, Z. J. Bosnjak

Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin

S-179 PROPOFOL STIMULATES NORADRENALIN-INHIBITED NEURONS IN THE VENTROLATERAL PREOPTIC NUCLEUS BY REDUCING GABAERGIC INHIBITION

J. Li, Y. Liu, S. Pisklavov, V. Tilak, J. H. Ye

Anesthesiology, University of Medicine and Dentistry of New Jersey, Newark, New Jersey

S-180 PROPOFOL INDUCED-SEDATION INVOLVES INHIBITION OF NORADRENALINE IN THE VENTROLATERAL PREOPTIC NUCLEUS

J. Li, H. M. Alhashem, M. Xiong, Y. Zhang, S. Pisklavov, V. Tilak, J. H. Ye

Anesthesiology, University of Medicine and Dentistry of New Jersey, Newark, New Jersey

Patient Safety 2

Abstracts in Poster Discussion Round: S-271 – S-276

Presenters in Attendance: 4:30 pm – 6:00 pm

PR01-17

Poster Moderator: R. Avitsian, MD, Cleveland Clinic, Cleveland, Ohio

S-271 SAMPLING STRATEGY FOR VITAL SIGNS AFFECTS PERFORMANCE OF INTRAOPERATIVE RISK MODELS: THE EXAMPLE OF THE SURGICAL APGAR SCORE

J. A. Hyder¹, D. J. Kor³, R. R. Cima², A. Subramanian³

¹Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts; ²Department of Surgery, Mayo Clinic, Rochester, Minnesota; ³Department of Anesthesiology, Mayo Clinic, Rochester, Minnesota

S-272 EFFECT OF SINGLE SMALL-DOSE DEXAMETHASONE ON BLOOD GLUCOSE CONCENTRATIONS IN THE PERIOPERATIVE PERIOD: A RANDOMIZED, PLACEBO-CONTROLLED INVESTIGATION IN GYNECOLOGIC SURGICAL PATIENTS

G. Murphy^{1,2}, J. Szokol^{1,2}, M. Avram³, S. Patel¹, S. Greenberg^{1,2}

¹Anesthesiology, NorthShore University HealthSystem, Evanston, Illinois; ²Anesthesiology, University of Chicago, Chicago, Illinois; ³Anesthesiology, Northwestern University, Chicago, Illinois

S-273 POSITIVE END EXPIRATORY PRESSURE INCREASES INTERNAL JUGULAR VEIN CROSS-SECTIONAL AREA IN OBESE ANESTHETIZED ADULTS

L. A. Downey¹, J. Silwa², J. Brock-Utne², A. Macario²

¹Boston Children's Hospital, Brookline, California; ²Anesthesiology, Stanford University, Stanford, California

S-274 SURVEY OF ANESTHESIOLOGISTS PRACTICE RELATED TO STEEP TRENDLENBURG POSITION IN THE USA

F. Souki, S. Eber, Y. F. Rodriguez Blanco, K. A. Candiotti

Anesthesiology and Perioperative Medicine, Miller School of Medicine, University of Miami, Miami, Florida

S-275 FREQUENCY OF INTRA-OPERATIVE CHANGES AS A RESULT OF THE SURGICAL SAFETY CHECKLIST

B. A. Gilmore¹, J. Myers¹, C. E. Attinger², P. Kim², K. A. Powers²

¹Anesthesiology, Medstar Georgetown University Hospital, Washington, DC; ²Plastic Surgery - Limb Salvage, Medstar Georgetown University Hospital, Washington, DC

S-276 EVALUATION OF PROMINENT FACTORS FOR MECHANICAL COMPLICATIONS OF CENTRAL VENOUS CATHETERIZATION. RETROSPECTIVE MULTIVARIATE ANALYSIS IN CASES DURING FIVE YEARS

T. Yorozu¹, Y. Shiokawa², K. Moriyama¹, Y. Azuma¹

¹Anesthesiology, Kyorin University School of Medicine, Tokyo, Japan; ²Neurosurgery, Kyorin University, School of Medicine, Tokyo, Japan

Sleep Medicine 1

Abstracts in Poster Discussion Round: S-357 – S-358

Presenters in Attendance: 4:30 pm – 6:00 pm

PR01-18

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

S-357 CAN PREOPERATIVE SLEEP QUALITY AFFECT INHALATION ANESTHETIC REQUIREMENTS?

M. A. Maher¹, E. A. Maher², A. A. Mahmoud³

¹Anesthesiology, Theodor Bilharz Research Institute, Giza, Egypt;

²Neurophysiology, Faculty of Medicine Cairo University, Cairo, Egypt; ³Anesthesiology, Faculty of Medicine Benisuef University, Benisuef, Egypt

S-358 SAFETY AND EFFICACY OF DEXMEDETOMIDINE IN INTUBATED, SPONTANEOUSLY BREATHING PATIENTS AFTER ENDOSCOPIC SUBMUCOSAL DISSECTION FOR ESOPHAGEAL OR PHARYNGEAL CANCER

C. Ishibashi¹, A. Fujimoto¹, K. Minematsu², K. Yamaguchi¹, M. Hayashida¹, E. Inada¹

¹Anesthesiology and Pain Medicine, Juntendo University School of Medicine, Tokyo, Japan; ²Public Health, Juntendo University School of Medicine, Tokyo, Japan

Challenging Case Reports 9

Abstracts in Poster Discussion Round: CC-139 – CC-143

Presenters in Attendance: 4:30 pm – 6:00 pm

PR01-19

Poster Moderator: G. Djaiani, MD, *Toronto General Hospital, Toronto, Ontario, Canada*

CC-139 A DILEMMA: INADVERTENT ARTERIAL PLACEMENT OF A CENTRAL LINE IN A SEPTIC PATIENT

B. Riley, Y. F. Rodriguez Blanco

University of Miami, Coral Gables, Florida

CC-140 PERIOPERATIVE IMPLICATIONS OF WEST NILE VIRUS FOR ELECTIVE SURGERY

N. Moreland, L. B. Hemmer, A. Kohrt

Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

CC-141 MODIFIED TSE “MASK” TO IMPROVE PRE-OXYGENATION OF COMBATIVE TRAUMA PATIENTS FOR EMERGENCY ENDOTRACHEAL INTUBATION

J. Tse¹, K. Dauphinee¹, H. Razo², N. Kumar¹, S. Barsoum¹, S. Cohen¹

¹Anesthesia, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, New Jersey; ²Emergency Medicine, UMDNJ-New Jersey Medical School, Newark, New Jersey

CC-142 FAT EMBOLISM SYNDROME PRESENTING AS POST OPERATIVE HYPOXEMIA

C. M. Walter, S. Yazdani, H. Gonzalez

Anesthesiology, Texas Tech University Health Sciences Center, Lubbock, Lubbock, Texas

CC-143 SUCCESSFUL TREATMENT OF ACUTE AVASCULAR NECROSIS PAIN AND DEPRESSION WITH KETAMINE IN A SICKLE CELL DISEASE PATIENT

S. Neves, C. Shimono, K. Chung

Department of Anesthesiology, Yale University, New Haven, Connecticut

OPENANESTHESIA

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Program Schedule • IARS 2013 Annual Meeting

	REGISTRATION & EXHIBITS	REVIEW COURSE LECTURES	PANELS (ROOM 1)
SATURDAY, MAY 4	6:00 am - 5:30 pm REGISTRATION		
	7:00 - 8:00 am CONTINENTAL BREAKFAST AND EXHIBITS		
	8:00 - 9:30 am 8:00 am - 8:30 am WELCOME • 8:30 am - 9:30 am Opening General Session T.H. SELDON MEMORIAL LECTURE – <i>Simulation – Another (Unsung) Gift to Medicine from Anesthesiology</i> – David M. Gaba, MD		
	9:30 - 10:00 am BREAK AND EXHIBITS		
	10:00 am - 1:00 pm		
SUNDAY, MAY 5	6:30 am - 5:00 pm REGISTRATION		
	7:00 - 8:00 am CONTINENTAL BREAKFAST AND EXHIBITS		
	8:00 - 11:00 am	RCL-01 - 2:00 - 2:55 pm: Rapid Recovery from Ambulatory Surgery: The New Paradigm in Ambulatory Anesthesia RCL-02 - 3:00 - 3:55 pm: Perioperative Ischemia in High-Risk Non-Cardiac Surgery: POISE I-II and Vision Trials RCL-03 - 4:00 - 4:55 pm: Size Matters: Perioperative Management of the Morbidly Obese RCL-04 - 5:00 - 5:55 pm: Obstetric Bleeding – Is It Preventable?	P-01 - 1:30 - 3:00 pm: APSF PANEL General Anesthesia for Infants Having Surgery and Elective Procedures: Is It Safe? P-02 - 3:00 - 4:30 pm: SCA PANEL Establishing a Blood Management Program P-03 - 4:30 - 6:00 pm: Neural Mechanisms of Anesthetic Action: Clinical Implications
	11:00 - 11:30 am BREAK AND EXHIBITS		
	11:30 am - 1:00 pm	RCL-05 - 8:00 - 8:55 am: Controversies in Pediatric Anesthesia: Mythbusters to the Rescue RCL-06 - 9:00 - 9:55 am: BIS Monitoring and Perioperative Outcomes: Does it Make a Difference? RCL-07 - 10:00 - 10:55 am: Quality and Patient Safety: The New Organizational Vital Signs	P-04 - 8:00 - 9:30 am: STA PANEL Building Quality and Establishing Value from Information Systems P-05 - 9:30 - 11:00 am: SPA PANEL The Pediatric Airway: From Basics to Advanced Management Techniques
MONDAY, MAY 6	6:30 - 10:00 pm PARTY WITH A PURPOSE FUNDRAISER		
	6:00 am - 5:00 pm REGISTRATION		
	7:00 - 8:00 am CONTINENTAL BREAKFAST AND EXHIBITS		
	8:00 - 11:00 am	RCL-12 - 8:00 - 8:55 am: Anesthesia for Electrophysiology RCL-13 - 9:00 - 9:55 am: Popular Misunderstandings in Neuroanesthesia RCL-14 - 10:00 - 10:55 am: Airway Emergencies – What Do You Do When You Are in Trouble?	P-13 - 8:00 - 9:30 am: ISAP PANEL The Best of the New in Clinical Pharmacology
	11:00 - 11:30 am BREAK AND EXHIBITS		
TUESDAY, MAY 7	11:30 am - 1:00 pm	RCL-15 - 11:30 am - 12:25 pm: Lies, Damn Lies and Anesthetic Myths	P-14 - 11:30 am - 1:00 pm: SOAP PANEL Current Concepts and New Perspectives - OB Anesthesia 2013 P-15 - 11:30 am - 1:00 pm: LICAGE PANEL The Liver and the Kidney
	1:00 - 2:00 pm LUNCH AND EXHIBITS		
	2:00 - 5:00 pm		
	6:30 am - 11:00 am REGISTRATION		
	7:00 - 8:00 am CONTINENTAL BREAKFAST		
	8:00 - 11:00	RCL-16 - 8:00 - 8:55 am: Don't Make Things Worse with Your Ventilator Settings! How You Manage The Lungs During The Intraoperative Period Affects Your Post-Operative Outcomes RCL-17 - 9:00 - 9:55 am: Pharmacogenetics and Personalized Medicine: What Every Clinician Should Know RCL-18 - 10:00 - 10:55 am: Tighten Your Belts! Reduce Your Transfusion Costs with Pre-Operative Management of Anemic Patients	P-17 - 8:00 - 9:30 am: SAMBA PANEL Optimizing Outcomes P-18 - 9:30 - 11:00 am: SOCCA PANEL Critical Care Issues Associated with a Patient Undergoing a Partial Nephrectomy

Program Schedule • IARS 2013 Annual Meeting

PBLD'S and PANELS (ROOM 2)		WORKSHOPS	SPECIAL SESSIONS	POSTER SESSIONS
REGISTRATION 6:00 am - 5:30 pm				
7:00 - 8:00 am PBLD-01: What the Anesthesiologist Needs to Know About Blood Salvage PBLD-02: Adventures in TIVA for Cases Involving Neuromonitoring		PBLD-03: Implementing An Anesthesia Information Management System (AIMS) PBLD-04: Management of Foreign Body Aspiration – When Is Cardiopulmonary Bypass Indicated?		7:00 - 8:00 am
8:00 am - 8:30 am WELCOME • 8:30 am - 9:30 am Opening General Session T.H. SELDON MEMORIAL LECTURE – <i>Simulation – Another (Unsung) Gift to Medicine from Anesthesiology</i> – David M. Gaba, MD				8:00 - 9:30 am
BREAK AND EXHIBITS			9:30 - 10:00 am	
			10:00 am - 1:00 pm SYMPOSIUM Evidence-Based Decision Making & Knowledge Translation – Health Technology Assessment	10:00 am - 1:00 pm
LUNCH AND EXHIBITS			1:00 -2:00 pm	
			2:00 - 6:00 pm RESIDENT SYMPOSIUM The Future is in Your Pocket! 2:00 - 3:00 pm: Resident Oral Competition 3:00 - 4:00 pm: Panel Discussion 4:00 - 6:00 pm: Ultrasound Workshop	2:00 - 6:00 pm
IARS NETWORKING RECEPTION – MEET THE LEADERSHIP – IARS BOT AND A&A EDITORIAL BOARD				6:30 - 7:30 pm
REGISTRATION 6:30 am - 5:00 pm				
7:00 - 8:00 am PBLD-01: Concerns Regarding Future Multiple General Anesthetics for Ongoing Evaluations of A Newly Diagnosed Retinoblastoma in A Young Infant PBLD-02: Liver Resection in A Patient with Hepatic Cirrhosis and Elevated Serum Creatinine		PBLD-03: Anesthetic Considerations in Interventional Treatment of SAH and Post SAH Vasospasm PBLD-04: Perioperative Management of A Morbidly Obese Patient Scheduled for Colectomy		7:00 - 8:00 am
P-06 - 10:00 - 10:30 am: ABA PANEL ABA Assessment Programs for Primary Certification in Anesthesiology P-07 - 10:30 - 11:00 am: ABA / MOCA PANEL ABA Maintenance of Certification in Anesthesiology Program® (MOCA®)	W-01 - 8:00 am - 12:00 pm Advanced Ultrasound Guided Nerve Block Workshop	8:00 - 11:00 am INTERNATIONAL SCIENCE SYMPOSIUM The Role of Mitochondria in the Perioperative Period		8:00 - 11:00 am
BREAK AND EXHIBITS		11:00 - 11:30 am		
P-09 - 11:30 am - 1:00 pm: ESA PANEL Future Challenges in Perioperative Medicine for Anesthesiologists P-10 - 11:30 am - 1:00 pm: SNACC PANEL Stroke and The Anesthesiologist	W-02 - 8:00 am - 5:00 pm SOCCA - A One-Day Critical Care Ultrasound Workshop			11:30 am - 1:00 pm
LUNCH AND EXHIBITS		1:00 - 2:00 pm		
		2:00 - 5:00 pm		
PARTY WITH A PURPOSE FUNDRAISER				6:30 - 10:00 pm
REGISTRATION 6:00 am - 5:00 pm				
7:00 - 8:00 am PBLD-01: Regional Anesthesia In Obstetrics: Spinal Catheters, Coagulation, and Other Common Conundrums PBLD-02: Everyone Needs to Evacuate The Surgicenter		PBLD-03: VASOPRESSIN PBLD-04: The Morbidly Obese Adult Patient for Ambulatory Surgery: Anesthesia Conondrums and Pitfalls PBLD-05: The Aging Anesthesiologist: How Do We Set Our Standards?		7:00 - 8:00 am
	W-03 - 8:00 - 11:00 am Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks Workshop	SYMPOSIUM 8:00 - 11:00 am Pain Mechanisms and Management: An Evidence-Based Approach		8:00 - 11:00 am
BREAK AND EXHIBITS		11:00 - 11:30 am		
P-16 - 11:30 am - 1:00 pm: Notorious Oxide - A Critical Appraisal of Nitrous Oxide		ABSTRACT AWARD SESSION 11:30 am - 1:30 pm 11:30 am - 12:30 pm: Best of Meeting 12:30 pm - 1:30 pm: Kosaka Awards		11:30 - 1:00
LUNCH AND EXHIBITS		1:00 - 2:00 pm		
		SYMPOSIUM 2:00 - 5:00 pm Post-Traumatic Coagulopathy: Mechanisms and Treatment		2:00 - 5:00 pm
REGISTRATION 6:30 am - 11:00 am				
7:00 - 8:00 am PBLD-01: The Risks of Anesthetizing A Child with A URI PBLD-02: Dilatation of an Esophageal Stricture in a Teenager with Duchenne Muscular Dystrophy		PBLD-03: Now That The Train Has Left The Station: What Does Healthcare Reform Mean To Me? PBLD-04: Perioperative Cognitive Morbidity in Elders		7:00 - 8:00 am
		W-04 - 8:00 - 11:00 am Ultrasound Guided Arterial, Central and Peripheral Venous Cannulation		

SATURDAY, MAY 4

SUNDAY, MAY 5

MONDAY, MAY 6

TUESDAY, MAY 7

THE INTERNATIONAL ANESTHESIA RESEARCH SOCIETY

IS PLEASED TO ANNOUNCE OUR

2013 Teaching Recognition Award Recipients

INNOVATION IN EDUCATION

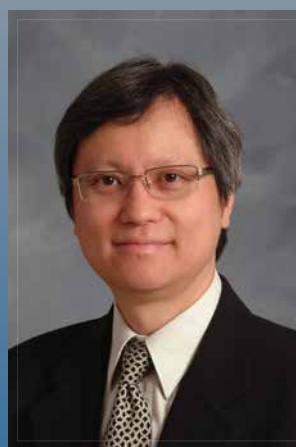


Jeffrey M. Taekman, MD
Duke University
Durham, North Carolina, USA
Co-Inventor of the ILE@D Platform

“The lessons learned from game developers, including how to foster engagement, how to motivate, and how to improve cognition/learning, will ultimately revolutionize education. At Duke, we have combined the emerging trends of online education, simulation, and gaming into ILE@D: Immersive Learning Environments @ Duke. ILE@D is an ecosystem of game-based, three-dimensional, interactive modules accessible from an internet-connected computer (and, in the future, any mobile device). ILE@D provides an interactive ‘front end’ to online education for the health professions. Equally important, the data derived from ‘game-play’ will be aggregated and analyzed-informing future learning and assessment solutions. We believe ILE@D is the first of a new generation of game-based tools that ultimately will revolutionize the very nature of education and assessment in the health professions.”

ACHIEVEMENT IN EDUCATION

“Vincent embarked on the quest of changing regional anesthesia from art to science through research and education in clinical ultrasound application. In the past decade, he worked tirelessly to advance research in ultrasound education, establish curriculum and guidelines for ultrasound education, conduct practical hands on ultrasound training worldwide, created textbooks, DVD’s and web based educational resources; furthermore, he provided leadership in promoting ultrasound education. Professor Chan is one of the most sought after renowned educators in ultrasound training in almost all anesthesiology societies’ conferences in all 5 continents and has led over 150 ultrasound-guided regional anesthesia workshops.” – Davy Cheng, MD, MSc, FRCPC, FCAHS, CCPE, Distinguished University Professor & Chair/Chief, Department of Anesthesia & Perioperative Medicine, London Health Sciences Centre & St. Joseph’s Health Care



Vincent Chan, MD
University of Toronto
Toronto, Ontario, Canada

CONGRATULATIONS TO THIS YEAR’S RECIPIENTS!

Learn more about the IARS
Teaching Recognition Awards:
www.iars.org/awards/teach.asp



IARS

International Anesthesia Research Society

Sunday, May 5 • Moderated Poster Discussion Rounds

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Economics, Education & Policy 1	51
Neuroscience in Anesthesiology & Perioperative Medicine 3	52
Pain Medicine 1	52

Discussion Times: 9:30 am – 11:00 am	Page
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Patient Safety 1	54
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Technology, Computing & Simulation 1	55

Discussion Times: 11:30 am – 1:00 pm	Page
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Discussion Times: 3:30 pm – 5:00 pm	Page
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Pediatric Anesthesiology 4	63
Anesthetic Pharmacology 5	63
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Note: Morning session posters are taken down during this time period to make room for the afternoon sessions.

LEARNER OBJECTIVES:

As a result of participating in this educational activity, learners will be able to describe recent advances in anesthesiology practice and patient care from the topic area and incorporate this new knowledge into their professional practice.

Airway Management – 2

Abstracts in Poster Discussion Round S-8 – S-13

Presenters in Attendance: 8:00 am – 9:30 am

PR02-01

Poster Moderator: C. Abdallah, MD, MSc, *Children's National Medical Center, Washington, DC*

S-8 COMPARISON OF THREE PLACEMENT TECHNIQUES OF PROSEAL LARYNGEAL MASK

A. Al Sabahi¹, R. M. Khan¹, N. Kaul¹, A. M. Malik²

¹Anaesthesia & ICU, National Trauma Center, Khoula Hospital, Muscat, Muscat, Oman; ²Medicine, JN Medical College Hospital, Aligarh, India

S-9 THE EFFECTS OF DIFFERENT MECHANICAL VENTILATION MODE ON INTRA- & POST-OPERATIVE BLOOD LOSS IN PATIENTS UNDERGOING SPINAL SURGERY

E. Jung¹, Y. Kim², W. Kang¹, S. Kim¹

¹Anesthesiology, Konkuk University Hospital, Konkuk University Medical Center, Seoul, Republic of Korea; ²Anesthesiology, Ewha Womans University, Seoul Seonam Hospital, Seoul, Republic of Korea

S-10 INTUBATION SKILLS OF EMERGENCY MEDICAL TECHNICIANS ARE DRAMATICALLY IMPROVED BY USING OUR NOVEL SYSTEM WHICH SHOW BOTH THE IMAGE FROM THE VIDEO LARYNGOSCOPE AND THE IMAGE FROM THE FIXED VIDEO CAMERA ON THE SAME SCREEN SIMULTANEOUSLY

T. Yoshida¹, M. Aoki¹, J. Saito², T. Sakai¹, Y. Sato³

¹Anesthesiology, Mutsu General Hospital, Mutsu, Japan; ²Anesthesiology, University of Hirosaki School of Medicine, Hirosaki, Japan; ³Anesthesiology, Seihoku Central Hospital, Goshogawara, Japan

S-11 MIGRATION OF POLYURETHANE HIGH-VOLUME LOW-PRESSURE CUFFED ENDOTRACHEAL TUBES AFTER FLEXION AND EXTENSION OF THE NECK: A PROSPECTIVE CONTROLLED TRIAL

E. Camporesi^{1,2}, D. Mangar², C. J. Sprenker², R. A. Karlinski^{1,2}, K. Downes³

¹Surgery, University of South Florida, Tampa, Florida; ²Florida Gulf to Bay Anesthesiology Associates LLC, Tampa, Florida; ³Research, University of South Florida, Tampa, Florida

S-12 EVALUATION OF 20/22 RULE TO DETERMINE THE APPROPRIATE DEPTH OF ORAL ENDOTRACHEAL INTUBATION IN JAPANESE

S. Mitsuda, A. Motoyasu, K. Moriyama, K. Moriyama, T. Yorozu
Anesthesiology, Kyorin University School of Medicine Hospital, Tokyo, Japan

S-13 COMPARING DIFFERENT VIDEO LARYNGOSCOPES AS THE PRIMARY INTENDED AIRWAY DEVICE: UNINTENDED PROBLEMS RESULTING IN COMPLICATIONS BEYOND LARYNGOSCOPY AND INTUBATION

M. B. Perini, J. May, N. Sparler, R. W. Calicott, Y. Bryan
Anesthesiology, Wake Forest School of Medicine, Winston-Salem, North Carolina

Ambulatory Anesthesia – 1

Abstracts in Poster Discussion Round: S-24 – S-26

Presenters in Attendance: 8:00 am – 9:30 am

PR02-02

Poster Moderator: G. Joshi, MBBS, MD, FFARCSI, *University of Texas Southwestern Medical Center, Dallas, Texas*

S-24 AURICULAR ACUPRESSURE IN PREVENTION OF POSTOPERATIVE NAUSEA AND EMESIS

C. Feng¹, J. Brown¹, R. Kline¹, J. Popovic¹, J. Bosco², J. Kim¹

¹Anesthesiology, NYU School of Medicine, New York, New York; ²Orthopedic Surgery, NYU School of Medicine, New York, New York

S-25 ROLE OF PREOPERATIVE HYDRATION WITH BALANCED SALT SOLUTION IN DECREASING THE INCIDENCE OF POSTOPERATIVE NAUSEA AND VOMITING

M. Singh, N. Nagarakanti

Axon Anesthesia Associates, Hyderabad, India

S-26 EFFECT OF CLONIDINE AND ATENOLOL PREMEDICATION ON HEMODYNAMIC STRESS AND PROPOFOL DOSE REQUIREMENT IN PATIENTS UNDERGOING ERCP UNDER SEDATION: A DOUBLE BLIND, RANDOMIZED, PLACEBO CONTROLLED STUDY

D. Gupta, P. Gyanesh, P. Rai, P. K. Singh

Anesthesiology, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow, India

Sunday, May 5 • Moderated Poster Discussion Rounds

Anesthetic Pharmacology – 2

Abstracts in Poster Discussion Round: S-42 – S-46

Presenters in Attendance: 8:00 am – 9:30 am

PR02-03

Poster Moderator: To be announced

S-42 GENDER DIFFERENCES IN REMIFENTANIL REQUIREMENTS FOR SUPPRESSION OF AIRWAY REFLEXES DURING ANESTHETIC EMERGENCE

S. Soh, J. Lee

Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea

S-43 KEEPING THE ENDOTHELIAL BARRIER TIGHT: ROPIVACAINE BLOCKS TNF-ALPHA-INDUCED ENDOTHELIAL CELL SRC ACTIVATION VIA INHIBITION OF PI3-KINASE/AKT/ENOS SIGNALING

T. Piegeler^{1,2}, E. Votta-Velis^{1,3}, D. Schwartz¹, R. O. Dull¹, A. Borgeat⁵, B. Beck-Schimmer², R. D. Minshall^{1,4}

¹Department of Anesthesiology, University of Illinois Hospital & Health Sciences Center, Chicago, Illinois; ²Institute of Anesthesiology, University Hospital Zurich, Zurich, Switzerland;

³Department of Anesthesiology, Jesse Brown VA Medical Center, Chicago, Illinois; ⁴Department of Pharmacology, University of Illinois Hospital & Health Sciences Center, Chicago, Illinois; ⁵Division of Anesthesiology, Balgrist University Hospital, Zurich, Switzerland

S-45 OPTIMAL DOSE OF PROPHYLACTIC DEXMEDETOMIDINE IN PREVENTING POSTOPERATIVE SHIVERING

Y. Kim, K. Seo

Catholic University, Suwon, Republic of Korea

S-46 PHARMACOKINETICS OF HYDROMORPHONE IN PATIENTS AFTER CARDIAC SURGERY

C. Jeleazcov, J. Mell, K. Fröhlich, T. I. Saari, H. Ihmsen, J. Fechner, J. Schuettler

Department of Anesthesiology, University Hospital Erlangen, Erlangen, Germany

Challenging Case Reports – 4

Abstracts in Poster Discussion Round: CC-114 – CC-117

Presenters in Attendance: 8:00 am – 9:30 am

PR02-04

Poster Moderator: Y. Saito, MD, Shimane University Faculty of Medicine, Izumo, Japan

CC-114 DIFFUSE ST-SEGMENT ELEVATION DURING CERVICAL SPINE SURGERY: AIR EMBOLISM OR CORONARY SPASM?

L. E. Kamel, J. B. Gross

Anesthesiology, UConn, Hartford, Connecticut

CC-115 EMERGENCY INTUBATION THROUGH THE ANTERIOR TONSILLAR PILLAR; A LIFESAVING STRATEGY IN A PATIENT WITH SEVERE TRACHOMALACIA

S. Duong, R. Pallack, T. Straker

Anesthesiology, Montefiore Medical Center, Bronx, New York

CC-116 PROLONGED CONVENTIONAL RESUSCITATION: A CONTRAINDICATION FOR EXTRACORPOREAL LIFE SUPPORT?

M. Dworschak¹, H. Rinösl^{2,1}, K. Skhirtladze-Dworschak¹, M. Frossard²

¹Cardiothoracic and Vascular Anesthesia and Intensive Care Medicine, Medical University of Vienna, Vienna, Austria;

²Emergency Medicine, Medical University of Vienna, Vienna, Austria

CC-117 NEAR-FATAL GASEOUS EMBOLISM DURING CORONARY ARTERY BYPASS GRAFTING: A CHALLENGING CASE REPORT

A. A. Ahmed^{1,2}, Z. T. Khan^{2,1}

¹Anesthesiology, Penn State Milton S. Hershey Medical Center, Hershey, Pennsylvania; ²Anesthesiology, Pinnacle Health/Harrisburg Hospital, Harrisburg, Pennsylvania

Economics, Education and Policy -1

Abstracts in Poster Discussion Round: S-137 – S-141

Presenters in Attendance: 8:00 am – 9:30 am

PR02-05

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

S-137 PRE-FILLED SYRINGES IN ACADEMIC ANESTHESIA: BENEFITS FOR ANESTHESIA PROVIDERS, FACILITIES, PATIENTS AND PLANET EARTH

H. Shaikh¹, A. Smith², S. Shaikh¹, D. Hall¹

¹Anesthesia, UMDNJ-RWJMS, New Brunswick, New Jersey;

²Nursing, RWJUH, New Brunswick, New Jersey

S-138 THE IN VIVO (PORCINE) SKILLS LABORATORY IN ANESTHESIOLOGY RESIDENCY TRAINING

G. Monreal, K. R. Moran, M. A. Gerhardt

Anesthesiology, The Ohio State University Wexner Medical Center, Columbus, Ohio

PR02-05, continued

S-140 THE FIRST ILLUSTRATIONS OF GENERAL ANESTHESIA IN THE WORLD

K. Dote¹, T. Nagaro²

¹Intensive Care Division, Ehime University Hospital, Toon, Japan;

²Anesthesia, Ehime University Hospital, Toon, Japan

S-141 SPEED MENTORING: A MENTEE-DRIVEN INITIATIVE TO CULTIVATE ONGOING MENTORING RELATIONSHIPS

E. Rebello¹, J. Ruiz¹, P. Norman¹, G. Redworth², T. Rahlfs¹

¹Anesthesiology and Perioperative Medicine, University of Texas MD

Anderson Cancer Center, Houston, Texas; ²Institutional Research,

University of Texas MD Anderson Cancer Center, Houston, Texas

Neuroscience in Anesthesiology and Perioperative Medicine – 3

Abstracts in Poster Discussion Round: S-181 – S-185

Presenters in Attendance: 8:00 am – 9:30 am

PR02-06

Poster Moderator: C. Ing, MD, Columbia University Medical Center, New York, New York

S-181 DEXMEDETOMIDINE FOR COMPLEX PATIENTS UNDERGOING AWAKE CRANIOTOMY

M. Garavaglia¹, A. Rigamonti¹, M. Cusimano³, C. Crescini¹,

D. Mazer², G. Hare², S. Das³

¹Anesthesia, St. Michael's Hospital - University of Toronto, Toronto,

ON, Canada; ²Anesthesia, St. Michael's Hospital, Li Ka Shing

Knowledge Institute, University of Toronto, Toronto, Ontario,

Canada; ³Neurosurgery, St. Michael's Hospital, Li Ka Shing

Knowledge Institute, University of Toronto, Toronto, Ontario, Canada

S-182 VULNERABILITY TO ANESTHESIA-INDUCED NEURONAL APOPTOTIC DEATH IS CELL AGE-SPECIFIC AND EXTENDS INTO ADULTHOOD

A. W. Loepke^{1,2}, R. D. Hofacer^{3,1}, M. Deng^{1,4}, C. G. Ward^{1,2},

B. Joseph¹, C. Jiang¹, S. C. Danzer^{1,2}

¹Department of Anesthesiology, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio; ²Departments of Anesthesiology and Pediatrics, University of Cincinnati College of Medicine, Cincinnati, Ohio; ³Program in Neuroscience, University of Cincinnati, Cincinnati, Ohio; ⁴Department of Anesthesiology, Children's Hospital of Fudan University, Shanghai, China

S-183 THE EFFECTS OF INTRAVENOUS PROPOFOL, DEXMEDETOMIDINE, KETAMINE AND ISOFLURANE ON TAU PHOSPHORYLATION IN NEURONAL CELL CULTURE AND IN VIVO

G. T. Wong¹, C. Huang¹, Y. Ho², M. G. Irwin¹, R. C. Chang²

¹Anesthesiology, University of Hong Kong, Hong Kong, Hong

Kong; ²Anatomy, University of Hong Kong, Hong Kong, Hong Kong

S-184 DEVELOPMENTAL EFFECTS OF SEVOFLURANE IN RATS MAY INVOLVE THE ANESTHETIC-CAUSED DYSREGULATION OF THE HYPOTHALAMIC-PITUITARY-ADRENAL (HPA) AXIS

A. Martynyuk^{1,2}, W. Zhu¹, J. Perez-Downes³, J. R. Willis¹,

B. P. Panzarini¹, C. N. Seubert¹, N. Gravenstein^{1,2}

¹Anesthesiology, University of Florida, Gainesville, Florida; ²The

McKnight Brain Institute, University of Florida, Gainesville, Florida;

³Lake Erie College of Osteopathic Medicine, Bradenton, Florida

S-185 MULTIPLE HYPERBARIC OXYGEN TREATMENTS ARE NEUROPROTECTIVE AGAINST REPETITIVE MILD TRAUMATIC BRAIN INJURY

L. Huang^{1,2}, M. Hamer³, K. Tasi⁴, A. Obenaus³, R. D. Martin¹,

J. Zhang^{1,2}, R. Applegate¹

¹Anesthesiology, Loma Linda University, Loma Linda, California;

²Physiology & Pharmacology, Loma Linda University, Loma

Linda, California; ³Pediatrics, Loma Linda University, Loma Linda,

California; ⁴Biology, University of California, Riverside, Riverside,

California

Pain Medicine – 1

Abstracts in Poster Discussion Round: S-238 – S-242

Presenters in Attendance: 8:00 am – 9:30 am

PR02-07

Poster Moderator: To be announced

S-238 RISK FACTORS FOR PROLONGED OPIOID USE AFTER MAJOR SURGERY: A POPULATION-BASED COHORT STUDY

N. Soneji^{1,5}, H. Clarke^{2,5}, D. Ko^{3,4}, L. Yun³, D. Wijeyesundera^{2,3}

¹Anesthesiology and Pain Management, Toronto Western

Hospital, University Health Network, Toronto, Ontario, Canada;

²Anesthesiology and Pain Management, Toronto General Hospital,

University Health Network, Toronto, Ontario, Canada; ³Institute

for Clinical and Evaluative Sciences, Toronto, Ontario, Canada;

⁴Schulich Heart Centre, Sunnybrook Health Sciences Centre,

Toronto, Ontario, Canada; ⁵Department of Anesthesia, University of

Toronto, Toronto, Ontario, Canada

S-240 CATECHOL-O-METHYLTRANSFERASE POLYMORPHISMS PREDICTS OPIOID CONSUMPTION IN POSTOPERATIVE PAIN

K. A. Candiotti¹, Y. F. Rodriguez Blanco¹, Z. Yang¹, D. Buric²,

O. Rodriguez¹

¹Anesthesiology, University of Miami School of Medicine, Miami,

Florida; ²Medical student, University of Miami School of Medicine,

Miami, Florida

S-241 THERMAL QUANTITATIVE SENSORY TESTING PREDICTS POSTOPERATIVE PAIN AND OPIOID ANALGESIC REQUIREMENTS FOLLOWING GYNECOLOGIC SURGERY

S. Ahmad, G. de Oliveira, R. J. McCarthy

Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

**S-242 +2-ACETYLCYCLOPENTANONE (2-ACP),
A 1,3-DICARBONYL ENOL, PROVIDES
HEPATOPROTECTION IN A MOUSE MODEL OF
ACETAMINOPHEN TOXICITY**

**B. Kosharsky¹, A. Vydyanathan¹, N. Shaparin¹, L. Zhang¹,
B. Geohagen¹, R. M. LoPachin¹, T. Gavin²**

¹Anesthesiology, Montefiore Medical Center Albert Einstein Medical College, Bronx, New York; ²Chemistry, Iona College, New Rochelle, New York

**Challenging Case Reports – 5
Abstracts in Poster Discussion Round:
CC-120 – CC-122 & CC-153**

Presenters in Attendance: 9:30 am – 11:00 am

PR02-08

Moderator: Y. Gozal, MD, Shaare Zedek Medical Center, Jerusalem, Israel

CC-120 BLOODLESS MEDICINE FOR EMERGENCY SURGERY

H. Schobel, J. Yosaitis, M. Hannallah

Anesthesiology, Georgetown University Hospital, Washington, DC

**CC-121 PERIOPERATIVE MANAGEMENT OF A PATIENT
WITH LARGE ANTERIOR MEDIASTINAL MASS AND
CARDIOPULMONARY COMPROMISE**

D. Flaten¹, J. Walker¹, B. Silkey²

¹Anesthesiology, University of Kansas School of Medicine – Wichita, Kansas, Wichita, Kansas; ²Research, Via Christi Hospitals, Wichita, Kansas

**CC-122 CHALLENGING CASE REPORT:
TEMPOROMANDIBULAR JOINT DISLOCATION
FOLLOWING THE INSERTION OF A LARYNGEAL
MASK AIRWAY (LMA)**

D. Rothenberg

Rush University Medical Center, Chicago, Illinois

**CC-153 ANESTHETIC MANAGEMENT OF OPEN HEART
SURGERY IN TWO PATIENTS WITH END STAGE
LIVER DISEASE**

G. Arzanipour, E. Elia

Anesthesiology, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania

Obstetric Anesthesiology – 2

Abstracts in Poster Discussion Round S-209 – S-214

Presenters in Attendance: 9:30 am – 11:00 am

PR02-09

Moderator: C. Wong, MD, Northwestern University Feinberg School of Medicine, Chicago, Illinois

**S-209 ADMINISTRATION OF EPIDURAL ANESTHESIA
FOR OBSTETRIC PATIENTS: WHEN DOES AN OB
ANESTHESIA ATTENDING RESCUE FROM
A RESIDENT?**

**D. M. Ridley, S. Cohen, A. Mohiuddin, P. Shapiro, C. Kloepping,
H. Denenberg, S. Ginsberg**

Anesthesia, Robert Wood Johnson University Hospital-UMDNJ, New Brunswick, New Jersey

**S-210 EPIDURAL BLOCK FOR CESAREAN SECTION WITH
GRAVITY FLOW TECHNIQUE: DOES THE ADDITION
OF EPINEPHRINE TO ROPIVACAINE REDUCE
THE INCIDENCE OF EPIDURAL BLOOD VESSEL
PUNCTURE?**

**A. Hasan, S. Cohen, S. Shah, R. Chhokra, A. Mohiuddin,
S. Mungekar, C. W. Hunter**

Anesthesia, Robert Wood Johnson University Hospital-UMDNJ, New Brunswick, New Jersey

**S-211 EPIDURAL BLOCK IN OBSTETRIC PATIENTS:
ARROW VERSUS B. BRAUN SPRINGWOUND CLOSED
END TIP EPIDURAL CATHETERS**

**N. Kumar, S. Cohen, S. Shah, A. Mohiuddin, P. Shapiro, A. Patel,
C. W. Hunter**

Anesthesia, Robert Wood Johnson University Hospital-UMDNJ, New Brunswick, New Jersey

**S-212 SINGLE DOSE DEXAMETHASONE INJECTION
IS AN EFFECTIVE PROPHYLAXIS AGAINST POST
DURAL PUNCTURE HEADACHE FOLLOWING SPINAL
ANAESTHESIA**

A. Thune Al-siyabi, A. Othman, R. M. Khan, N. Kaul

Anaesthesia & ICU, National Trauma Center, Khoula Hospital, Muscat, Muscat, Oman

**S-213 CESAREAN SECTION IN PATIENT WITH
ACHONDROPLASIA**

D. Gluck¹, A. K. Nair^{2,1}, D. Kamalam^{2,1}

¹Anesthesiology, Mt. Sinai School of Medicine, New York, New York;

²Anesthesiology, Elmhurst Hospital Center, Elmhurst, New York

**S-214 FIVE YEARS OF EXPERIENCE WITH INTRATHECAL
CATHETER PLACEMENT IN OBSTETRICS:
RATES OF POST DURAL PUNCTURE HEADACHE
AND BLOOD PATCH**

L. H. Lang, J. Sinskey, J. R. Feiner, M. Rollins

Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California

Pain Medicine – 2

Abstracts in Poster Discussion Round: S-244 – S-248

Presenters in Attendance: 9:30 am – 11:00 am

PR02-10

Poster Moderator: R. Ganta, MD, FRCA, VAMC and OU Medical Center, Oklahoma City, Oklahoma

S-244 EVALUATION OF SATISFACTION WITH POSTOPERATIVE PAIN CONTROL FOLLOWING THORACOSCOPIC SURGERY

J. S. Quick¹, D. J. Correll^{1,2}

¹Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts; ²Harvard Medical School, Boston, Massachusetts

S-245 INTRAVENOUS PATIENT-CONTROLLED ANALGESIA PROVIDES EFFECTIVE PAIN CONTROL FOR PATIENTS UNDERGOING MINIMALLY INVASIVE PECTUS EXCAVATUM REPAIR: A FIFTEEN YEAR REVIEW

M. B. Shane¹, S. Kost-Byerly¹, P. Colombani², C. L. Mai¹

¹Pediatric Anesthesiology, Critical Care Medicine & Pain Medicine, Johns Hopkins University, Baltimore, Maryland; ²Pediatric Surgery, Johns Hopkins University, Baltimore, Maryland

S-246 EXPANDING UPON KETAMINE ANALGESIC POTENTIAL

A. Samir

Henry Ford Hospital, Detroit, Michigan

S-247 DOES THE FUTURE OF INTERVENTIONAL PAIN MANAGEMENT LIE WITHIN THE LIMBIC SYSTEM?

B. J. Collins¹, C. McDonough¹, S. Mellender¹, S. Danish², C. W. Hunter¹

¹Anesthesiology, UMDNJ- Robert Wood Johnson Medical School, New Brunswick, New Jersey; ²Neurosurgery, UMDNJ- Robert Wood Johnson Medical School, New Brunswick, New Jersey

S-248 EFFECTS OF GENERAL ANESTHETICS ON NOCICEPTIVE SYNAPTIC TRANSMISSION IN SPINAL DORSAL HORN

T. Takasusuki¹, S. Yamaguchi¹, T. Saotome¹, M. Kageyama¹, Y. Hori², T. L. Yaksh³

¹Department of Anesthesiology, Dokkyo Medical University, Mibu, Japan; ²Department of Physiology and Biological Information, Dokkyo Medical University, Mibu, Japan; ³Department of Anesthesiology, University of California San Diego, La Jolla, California

Patient Safety – 1

Abstracts in Poster Discussion Round: S-265 – S-270

Presenters in Attendance: 9:30 am – 11:00 am

PR02-11

Poster Moderator: P. Picton, MB ChB, University of Michigan Health System, Ann Arbor, Michigan

S-265 APPLICATION OF THE SURGICAL APGAR SCORE AS AN OUTCOME MEASURE IN CADAVERIC KIDNEY TRANSPLANT PATIENTS

D. Stoll, S. Palesch, L. Hebban

Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina

S-266 INTRAOPERATIVE MEDICATIONS ASSOCIATED WITH CLINICALLY SIGNIFICANT ANAPHYLAXIS

R. E. Freundlich, N. M. Duggal, A. Shanks, K. K. Tremper, M. Engoren, S. Kheterpal

Department of Anesthesiology, University of Michigan, Ann Arbor, Michigan

S-267 REDUCTION OF THE PERI-OPERATIVE CEREBROVASCULAR COMPLICATIONS DURING THE ULTRASOUND-GUIDED CENTRAL VENOUS CATHETERIZATION

K. Koshikawa, Y. Asakura

Department of Anesthesiology, Nagoya Kyoritsu Hospital, Nagoya, Japan

S-268 SCRUB DURATION NEEDED FOR STERILIZATION OF CENTRAL VENOUS CATHETER HUB

M. Rice¹, J. Holroyd¹, D. Paulus¹, K. Rand², L. Caruso¹, T. Morey¹

¹Anesthesiology, University of Florida College of Medicine, Gainesville, Florida; ²Pathology, Immunology, and Laboratory Medicine, University of Florida College of Medicine, Gainesville, Florida

S-269 CORNEAL ABRASION IN NON-OPHTHALMOLOGIC SURGERY PATIENTS: A RETROSPECTIVE, SINGLE MEDICAL CENTER STUDY

R. Sekhar

Anesthesiology, SUNY Upstate Medical University, Syracuse, New York

S-270 IDENTIFICATION OF POSTOPERATIVE MYOCARDIAL INFARCTION THROUGH RETROSPECTIVE SCANNING OF CARDIAC TROPONINS

L. M. House^{1,2}, K. N. Marolen¹, P. J. St. Jacques¹, J. M. Ehbrenfeld¹

¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee; ²College of Medicine, University of Tennessee Health Science Center, Memphis, Tennessee

Regional Anesthesia – 1

Abstracts in Poster Discussion Round: S-336 – S-339

Presenters in Attendance: 9:30 am – 11:00 am

PR02-12

Poster Moderator: R. McCarthy, MD, *Northwestern University, Chicago, Illinois*

S-336 PATIENT SATISFACTION WITH GENERAL VERSUS REGIONAL FOR ARTERIOVENOUS ACCESS SURGERY IN PATIENTS ANESTHESIA WITH END-STAGE RENAL DISEASE

M. Y. Elhakim, P. G. Loubser, B. Marasigan, S. Zhou
Anesthesiology, University of Texas Medical School at Houston, Houston, Texas

S-337 STUDY OF BASELINE HEART RATE AS A PREDICTOR OF HYPOTENSION FOLLOWING SPINAL ANAESTHESIA

L. Al Habsi¹, R. M. Khan¹, N. Kaul¹, N. Gosalia¹, A. M. Malik², F. Al-Hinai¹

¹Anaesthesia & ICU, National Trauma Center, Khoulou Hospital, Muscat, Muscat, Oman; ²Medicine, JN Medical College Hospital, Aligarh, India

S-338 EVALUATION OF EXPAREL® USE IN A TRANSVERSUS ABDOMINIS PLANE (TAP) BLOCK FOR PROLONGED POSTOPERATIVE ANALGESIA IN SUBJECTS UNDERGOING OPEN UMBILICAL HERNIA REPAIR

N. Younger, D. E. Feerman, M. Kronenfeld, P. M. Gupta, E. Logvinskiy
Anesthesiology, Maimonides Medical Center, Brooklyn, New York

S-339 EVALUATION OF THE FEASIBILITY OF THORACIC SURGERY WITHOUT GENERAL ANAESTHESIA AND TRACHEAL INTUBATION

A. A. Sherif², S. M. Elsheki¹, J. M. Kamal¹, D. Nabil¹, A. A. Abdelrahman¹

¹Anesthesia, Intensive Care and Pain Medicine, National Cancer Institute, Cairo University, Egypt, Cairo, Egypt; ²Anesthesia, Surgical Intensive Care, and Pain Medicine, El-Menoufiya University, Faculty of Medicine, Alexandria, Egypt

Technology, Computing and Simulation – 1

Abstracts in Poster Discussion Round: S-364 – S-368

Presenters in Attendance: 9:30 am – 11:00 am

PR02-13

Poster Moderator: T. Krejcie, MD, *Northwestern Feinberg School of Medicine, Chicago, Illinois*

S-364 DEVELOPMENT AND VALIDATION OF AN INTRA-OPERATIVE PREDICTIVE MODEL FOR UNPLANNED POST-OPERATIVE INTENSIVE CARE

J. P. Wanderer¹, J. Anderson-Dam², W. Levine², E. A. Bittner²

¹Department of Anesthesiology, Vanderbilt University, Nashville, Tennessee; ²Department of Anesthesiology, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-365 DOES THE PULSEOXIMETER PULSE VOLUME VARIATION TREND THE SAME AS ARTERIAL PULSE PRESSURE VARIATION?

M. J. Harrison

Surgery and Anaesthesia, University of Otago (Wellington), Wellington, New Zealand

S-366 FUZZY LOGIC MU VALUES FOR INTRA-OPERATIVE HYPOTENSION

M. J. Harrison¹, S. K. Lo²

¹Surgery and Anaesthesia, University of Otago (Wellington), Wellington, New Zealand; ²Intensive Care, Middlemore Hospital, Auckland, New Zealand

S-367 EVIDENCE-BASED MONITORING FOR THE DIAGNOSIS OF HYPOVOLEMIA

M. J. Harrison

¹Surgery and Anaesthesia, University of Otago (Wellington), Wellington, New Zealand; ²Anaesthesia and Pain Medicine, Wellington Regional Hospital, Wellington, New Zealand

S-368 REAL-TIME DOPPLER-BASED ARTERIAL VASCULAR IMPEDANCE AND PERIPHERAL PRESSURE-FLOW LOOPS

R. H. Thiele¹, K. Bartels², K. Ikeda², T. Gan²

¹Anesthesiology, University of Virginia, Charlottesville, Virginia; ²Anesthesiology, Duke University, Durham, North Carolina

Anesthetic Pharmacology 3

Abstracts in Poster Discussion Round: S-47 – S-51

Presenters in Attendance: 11:30 am – 1:00 pm

PR02-14

Poster Moderator: H. Kinoshita, MD, *Aichi Medical University, Nagakute, Aichi, Japan*

S-47 COMPARISON OF PROPOFOL AND SEVOFLURANE FOR RECOVERY FROM MUSCLE RELAXANTS DURING REMIFENTANIL-BASED ANESTHESIA

J. Kim, S. Baik, S. Shin, S. Baek, H. Kim

Anesthesia and Pain Medicine, Busan National University Yangsan Hospital, Yangsan, Democratic People's Republic of Korea

S-48 SUGAMMADEX REVERSAL OF ROCURONIUM- OR VECURONIUM-INDUCED NEUROMUSCULAR BLOCKADE IS NOT ASSOCIATED WITH AN INCREASED RISK OF EITHER BLEEDING OR BLOOD LOSS COMPARED WITH USUAL CARE

N. Rahe-Meyer¹, S. Schulman², W. Klimscha³, M. Przemek⁴, M. Blobner⁵, H. F. Wulf⁶, H. Fennema⁷, A. Szegedi⁸

¹Franziskus Hospital Bielefeld, Hannover Medical School, Bielefeld, Germany; ²McMaster University and Thrombosis and Atherosclerosis Research Institute, Hamilton, Ontario, Canada; ³Medical Research Society, Danube Hospital, Vienna, Austria; ⁴Department of Anesthesia and Intensive Care, Annaburg, Hannover, Germany; ⁵Klinik für Anästhesiologie der Technischen Universität München, Munich, Germany; ⁶Klinik für Anästhesie und Intensivtherapie, Universitätsklinikum, Marburg, Germany; ⁷MSD, Oss, Netherlands; ⁸Merck, Whitehouse, Station, New Jersey

PR02-14, continued

S-49 PREVENTION OF POSTANAESTHETIC SHIVERING AFTER GENERAL ANAESTHESIA, ONDANSETRON VERSUS BUTROPHANOL, A RANDOMIZED DOUBLE BLINDED PLACEBO CONTROLLED STUDY

S. Sahu, S. Kumar

Department of Anaesthesiology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, Up, India, Lucknow, India

S-50 FIRST USE OF THE NOVEL NEUROMUSCULAR BLOCKING DRUG CW002 IN MAN: SINGLE DOSE PHARMACODYNAMIC ASSESSMENT DURING PROPOFOL OR SEVOFLURANE ANESTHESIA

M. T. Murrell, J. K. Malhotra, H. Sunaga, P. M. Heerdt, C. A. Lien

Department of Anesthesiology, New York Presbyterian Hospital, Weill Cornell Medical College, New York, New York

S-51 METABOLIC ALTERATIONS INDUCED DURING CYANIDE TOXICITY AND THEIR REVERSAL IN A RABBIT MODEL

H. Singh¹, R. Adhikari¹, D. Beebe¹, J. R. Srikanthan¹, S. Patterson², K. G. Belani^{1,2}

¹Anesthesiology, University of Minnesota, Minneapolis, Minnesota;

²Center for Drug Design, University of Minnesota, Minneapolis, Minnesota

Cardiovascular Anesthesiology – 2

Abstracts in Poster Discussion Round: S-72 – S-77

Presenters in Attendance: 11:30 am – 1:00 pm

PR02-15

Poster Moderator: J. DiNardo, MD, *Children's Hospital Boston, Boston, Massachusetts*

S-72 REGIONAL OXYGEN SATURATION VERSUS TWELVE LEAD ELECTROENCEPHALOGRAPH AS A PREDICTOR OF CEREBRAL ISCHEMIA DURING CAROTID ENDARTERECTOMY

W. Mauermann¹, A. Z. Crepau², J. N. Pulido¹, J. J. Lynch¹, A. Lobbestael³, G. A. Worrell²

¹Anesthesiology, Mayo Clinic, Rochester, Minnesota; ²Neurology, Mayo Clinic, Rochester, Minnesota; ³Statistics, Nonin Medical Inc., Plymouth, Minnesota

S-73 OUTCOMES AND PERIOPERATIVE IMPLICATIONS OF NONCARDIAC SURGERY IN PATIENTS WITH LEFT VENTRICULAR ASSIST DEVICES

D. W. Barbara, D. Wetzel, J. N. Pulido, W. Mauermann

Anesthesiology, Mayo Clinic, Rochester, Minnesota

S-74 K-OPIOID RECEPTOR ANTIARRHYTHMIC ACTIVITY MODULATED VIA CX43 AND INTRACELLULAR CALCIUM

A. D. Kaye¹, B. J. De Witt¹, A. J. Kaye², J. Pei³

¹Department of Anesthesiology, Louisiana State University Health Science Center-New Orleans, New Orleans, Louisiana; ²Stanford University, Palo Alto, California; ³Fourth Military Medical University, Xi'an, China

S-75 U50,488H INHIBITS NEUTROPHIL ACCUMULATION AND TNF- α INDUCTION IN ISCHEMIA-REPERFUSED RAT HEART

A. D. Kaye¹, B. J. De Witt¹, A. J. Kaye², J. Pei³

¹Anesthesiology, Louisiana State University Health Science Center-New Orleans, New Orleans, Louisiana; ²Stanford University, Palo Alto, California; ³Fourth Military Medical University, Xi'an, China

S-76 PREDICTIVE ANALYTICS IN THE ESTIMATION OF ICU LENGTH OF STAY AFTER CARDIAC SURGERY

R. J. LaFaro¹, S. Pothula², S. Yuan², V. M. Pothula³, E. Bazaz³, R. Perline⁴, M. A. Inchiosa^{3,2}

¹Surgery, New York Medical College, Valhalla, New York;

²Anesthesiology, New York Medical College, Valhalla, New York;

³Pharmacology, New York Medical College, Valhalla, New York;

⁴The SAS Institute, Cary, North Carolina

S-77 EFFECT OF PROPOFOL ANESTHESIA INDUCTION ON CARDIAC FUNCTION IN LOW-RISK PATIENTS: TISSUE DOPPLER IMAGING OF MITRAL VALVE ANNULAR VELOCITY

J. Kim¹, H. Yang², J. Seok¹, W. Kang¹, S. Kim¹, T. Yoon¹, T. Kim¹

¹Department of Anesthesiology, Konkuk University Medical Center, Seoul, Republic of Korea; ²Department of Internal Medicine, Konkuk University Medical Center, Seoul, Republic of Korea

Challenging Case Reports – 6

Abstracts in Poster Discussion Round: CC-123 – CC-127

Presenters in Attendance: 11:30 am – 1:00 pm

PR02-16

Poster Moderator: S. Wahlander, MD, *Columbia University Medical Center, New York City, New York*

CC-123 ANESTHETIC CONSIDERATIONS FOR THE SURGICAL SEPARATION OF OMPHALOPAGUS CONJOINED TWINS

K. E. Carter, A. Z. Dubovoy, J. S. Dore, J. Kierce, J. H. Shapiro, R. Durkin

Anesthesiology, Virginia Commonwealth University Health Systems, Richmond, Virginia

CC-124 RAPID CARDIAC RECOVERY POST LIVER TRANSPLANTATION (LT) IN A PATIENT WITH ADVANCED CIRRHOSIS AND SEVERE CIRRHOTIC CARDIOMYOPATHY

S. S. Shettar¹, K. Fukazawa¹, S. Nishida², E. Pretto¹

¹Department of Anesthesiology, University of Miami, Miller School of Medicine, Miami, Florida; ²Department of Surgery, University of Miami, Miller School of Medicine, Miami, Florida

CC-125 A HOPELESS CASE?!

G. Li, A. Dalal

Anesthesia, Critical Care and Pain Medicine, MGH, Boston, Massachusetts

CC-126 EPIDERMOLYSIS BULLOSA DISEASE AND PYLORIC STENOSIS: A CHALLENGING CASE REPORT

J. Smolinski, K. N. Nguyen

Anesthesiology, Children's Hospital of the University of Pittsburgh, Pittsburgh, Pennsylvania

CC-127 AIRWAY MANAGEMENT OF A PATIENT WITH TRACHEAL DIVERTICULUM: DIFFERENT LUNG VENTILATION USING A BRONCHIAL BLOCKER THROUGH A LARYNGEAL MASK

K. Anraku¹, C. Toda¹, A. Yasuda^{2,1}, Y. Hara¹, S. Sawamura¹

¹Anesthesiology, Teikyo University School of Medicine, Tokyo, Japan;

²Anesthesia, Massachusetts General Hospital, Boston, Massachusetts

Patient Safety – 3

Abstracts in Poster Discussion Round: S-277 – S-281

Presenters in Attendance: 11:30 am – 1:00 pm

PR02-17

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

S-277 CORING OF MEDICATION BOTTLES: AN UNEXPECTED PHENOMENON AND RISKS TO PATIENT SAFETY

D. Nguyen¹, V. Amin¹, S. Popiak², D. Prough¹

¹Department of Anesthesiology, The University of Texas Medical Branch, Galveston, Texas; ²Department of Pharmacy, Shriners Hospitals for Children, Galveston, Texas

S-278 POSTOPERATIVE RESIDUAL CURARIZATION IN THE MORBIDLY OBESE

L. Frank¹, C. Cajina¹, Y. Cozacov², I. Abels¹

¹Anesthesiology, Cleveland Clinic Florida, Weston, Florida; ²Surgery, Cleveland Clinic Florida, Weston, Florida

S-279 IN-HOSPITAL CARTOGRAPHY OF CARDIAC ARREST – A SINGLE CENTER REPORT

P. Burtin, C. Vannucci, A. Marie, J. Bignon, A. Granier Lebarb, P. Courant

Clinique du Millénaire, Montpellier, France

S-280 INTRAOPERATIVE HYPOTENSIVE EXPOSURE PORTENDS ADVERSE 30-DAY SURVIVAL IN PATIENTS WITH LOW CO-MORBIDITY

W. H. Stapelfeldt¹, J. Dalton², P. Bromley¹, J. Cywinski¹, M. Reynolds¹, B. Ghosh¹

¹General Anesthesiology, Cleveland Clinic, Cleveland, Ohio;

²Quantitative Health Sciences, Cleveland Clinic, Cleveland, Ohio

S-281 BACTERIAL IMPERMEABILITY OF A FIREPROOF FABRIC

S. Glassman¹, P. B. Langevin¹, M. S. Green¹, P. A. Gulig²

¹Anesthesiology, Drexel University, Philadelphia, Pennsylvania;

²Molecular Genetics and Microbiology, University of Florida, Gainesville, Florida

Technology, Computing and Simulation – 2

Abstracts in Poster Discussion Round: S-369 – S-374

Presenters in Attendance: 11:30 am – 1:00 pm

PR02-18

Poster Moderator: J. Ehrenfeld, MD, MPH, Center for Evidence Based Anesthesia, Perioperative Data Systems Research, Vanderbilt University, Nashville, Tennessee

S-369 BLOOD PRESSURE CUFF FIT AND ARM CIRCUMFERENCE IN MORBIDLY OBESE ADULTS

R. Schumann¹, A. Valenti², O. A. Alyamani¹, I. Bonney¹

¹Anesthesiology, Tufts Medical Center, Boston, Massachusetts;

²Northeastern University, Boston, Massachusetts

S-370 EVALUATION OF THE EFFICACY OF AN OXYGEN MASK WITH A RESERVOIR BAG USING A HIGH FIDELITY HUMAN PATIENT SIMULATOR

T. Yorozu, K. Moriyama, K. Moriyama, A. Motoyasu, S. Mitsuda

Department of Anesthesiology, Kyorin University, School of Medicine, Tokyo, Japan

S-371 EVALUATING THE LONG-TERM RETENTION OF A MULTIDISCIPLINARY ELECTROENCEPHALOGRAPHY INSTRUCTIONAL MODEL

B. G. Fahy¹, D. F. Chau², T. O. Baslanti¹, M. B. Owen³

¹Anesthesiology, University of Florida, Gainesville, Florida;

²Anesthesiology, University of Kentucky, Lexington, Kentucky;

³Neurology, University of Kentucky, Lexington, Kentucky

S-372 EVALUATION OF CLOSED LOOP ANAESTHESIA DELIVERY SYSTEM FOR PROPOFOL ANAESTHESIA IN PAEDIATRIC CARDIAC SURGERY

S. S. Rana, G. D. Puri, I. Biswas, P. J. Mathews

Anaesthesia and Intensive Care, PGIMER, Chandigarh, India

S-373 REAL TIME ESTIMATION OF THE OPTIMAL PROPOFOL CONCENTRATION FOR MAINTAINING THE REQUESTED BIS VALUE: METHODOLOGY AND RELIABILITY

O. Nagata¹, A. Kuroyanagi², A. Matsunaga³, Y. Kanmura³

¹Department of Anesthesia, The Cancer Institute Hospital of JFCR, Koto-ku, Japan; ²Anesthesiology, Tokyo Women's Medical University, Shinjuku-ku, Japan; ³Anesthesiology and Critical Care Medicine,

Kagoshima University Hospital, Kagoshima, Japan

S-374 THREE-DIMENSIONAL (3D) PRINTING FOR THE CREATION OF TRACHEO-BRONCHIAL MODELS AS SIMULATION TOOLS FOR EDUCATION IN ENDOSCOPIC ANATOMY

F. Norris, P. Bishop, R. Klatte, S. Bustamante

Cleveland Clinic, Cleveland, Ohio

Moderated Poster Discussion Rounds • Sunday, May 5

Anesthetic Pharmacology – 4

Abstracts in Poster Discussion Round: S-44 & S-52- S-56

Presenters in Attendance: 2:00 pm – 3:30 pm

PR02-19

Poster Moderator: R. Whittington, MD, *Columbia University Medical Center, New York City, New York*

S-44 EFFECTS OF ISOFLURANE ON MITOCHONDRIAL ELECTRON TRANSPORT CHAIN COMPLEXES I AND III ARE SUBSTRATE DEPENDENT

D. F. Stowe, B. Agarwal, R. Dash, A. K. Camara
Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin

S-52 PROPOFOL INDUCES DNA DAMAGE IN MOUSE LEUKEMIC MONOCYTE MACROPHAGE RAW 264.7 CELLS

R. S. Wu^{1,2}, J. Chung^{2,1}, K. Wu³
¹Anesthesiology, China Medical University Hospital, Taichung, Taiwan; ²Anesthesiology, China Medical University, Taichung, Taiwan; ³Anesthesiology, E-DA Hospital/I-Shou University, Kaohsiung, Taiwan

S-53 THE EFFECT OF DIFFERENT LOADING DOSES OF DEXMEDETOMIDINE ON BIS AND EC50 OF PROPOFOL AT LOSS OF CONSCIOUSNESS

Y. Wang, A. Bajracharya, W. Zhang, M. Ma
Department of Anesthesiology, First Affiliated Hospital of Zhengzhou University, Zhengzhou, China

S-54 PHARMACOKINETICS AND PHARMACODYNAMICS OF LEOBUPIVACAINE USED FOR EPIDURAL ANESTHESIA IN PATIENTS WITH LIVER DYSFUNCTION

M. Ma, J. Ran, J. Zhang, Y. Wang
Department of Anesthesiology, First Affiliated Hospital of Zhengzhou University, Zhengzhou, China

S-55 ROLE OF PREEMPTIVE GABAPENTIN ON POSTOPERATIVE ANALGESIA AND OPIOID CONSUMPTION FOLLOWING INFRAUMBILICAL SURGERIES (INGUINAL HERNIORRAPHY) UNDER SUBARACHNOID BLOCK- A RANDOMIZED PLACEBO CONTROLLED DOUBLE BLIND STUDY

G. S. Tomar, S. Chawla, S. Ganguly
Department of Anesthesiology and Critical Care, St. Stephen's Hospital, New Delhi, India

S-56 THE COMBINED PRESENCE OF TWO SNPS IN THE MDR1 GENE, CODING FOR P-GLYCOPROTEIN (P-GP, ABCB1), INFLUENCES THE EFFECT CYCLOSPORINE, A PROVEN P-GP-INHIBITOR, ON PUPIL DIAMETER AFTER MORPHINE INFUSION IN HUMAN VOLUNTEERS

K. Meissner^{1,3}, H. E. Meyer zu Schwabedissen², C. E. Göpfert³, J. Blood³, A. M. Francis³, V. Yermolenka³, E. Kharasch³
¹Klinik für Anästhesiologie, Universitätsmedizin Greifswald, Greifswald, Germany; ²Institut für Pharmakologie, Universitätsmedizin Greifswald, Greifswald, Germany; ³Department of Anesthesiology, Division of Clinical and Translational Research, Washington University in St. Louis, St. Louis, Missouri

Cardiovascular Anesthesiology – 3

Abstracts in Poster Discussion Round: S-78 – S-83

Presenters in Attendance: 2:00 pm – 3:30 pm

PR02-20

Poster Moderator: S. Worah, MD, *SUNY Downstate Medical Center, Brooklyn, New York*

S-78 CAN PWTTV DETECT A DECREASING OF CARDIAC OUTPUT INDUCED BY MECHANICAL VENTILATION?

K. Yamashita, T. Kawano, T. Yatabe, H. Abe, M. Yokoyama
Anesthesiology and Intensive Care Medicine, Kochi Medical School, Kochi, Japan

S-79 PERIOPERATIVE BETA-BLOCKER USE AND SURVIVAL IN LUNG CANCER PATIENTS

J. Cata¹, J. Villarreal¹, D. Keerty², D. Thakar¹, A. Sood¹, V. Gottumukkala¹
¹MD Anderson Cancer Center, Houston, Texas; ²The Wright Center for Graduate Medical Education, Scranton, Pennsylvania

S-80 SURGICAL TRANSLOCATION OF THE RIGHT CORONARY ARTERY IN A YOUNG PATIENT WITH RECURRENT CHEST PAIN FROM ANOMALOUS ORIGIN OF CORONARY ARTERY FROM THE OPPOSITE SINUS

J. Villani, L. De Lima, K. Sijansky
Anesthesiology, University of Mississippi, Jackson, Mississippi

S-81 INHALED VASODILATOR THERAPY WITH ILOPROST, A LONG-ACTING PROSTACYCLIN ANALOGUE, DECREASES TIME TO EXTUBATION FOLLOWING HEART TRANSPLANT

T. Enomoto, M. J. Merkel
Anesthesiology & Perioperative Medicine, Oregon Health Sciences University, Portland, Oregon

S-82 THREE-DIMENSIONAL TRANSESOPHAGEAL ECHOCARDIOGRAPHY MEASUREMENT OF AORTIC VALVE SURFACE COAPTATION INDEXED TO THE ANNULAR AREA CORRELATES WITH SEVERITY OF AORTIC INSUFFICIENCY

M. S. Song, J. Cappadona, V. Nasr, F. Cobey
Tufts Medical Center, Boston, Massachusetts

S-83 CORRECTED RIGHT VENTRICULAR END-DIASTOLIC VOLUME AND INITIAL DISTRIBUTION VOLUME OF GLUCOSE CORRELATE WITH CARDIAC OUTPUT AFTER CARDIAC SURGERY

J. Saito¹, H. Ishihara¹, E. Hashiba², H. Okawa¹, T. Tsubo², K. Hirota¹
¹Anesthesiology, Hirosaki University Graduate School of Medicine, Hirosaki, Japan; ²Division of Intensive Care Unit, Hirosaki University Graduate School of Medicine, Hirosaki, Japan

Challenging Case Reports – 7

Abstracts in Poster Discussion Round: CC-128 – CC-133

Presenters in Attendance: 2:00 pm – 3:30 pm

PR02-21

Poster Moderator: G. Wagener, MD, *College of Physicians & Surgeons of Columbia University, New York City, New York*

CC-128 INTRA-OP TENSION PNEUMOTHORAX WITH STABLE HEMODYNAMICS DURING A CONTRALATERAL CHEST WALL RESECTION

S. Mousavi, Z. Yang

Anesthesiology, SUNY Upstate University Hospital, Syracuse, New York

CC-129 COORDINATED CARE MODEL IN A NEONATE WITH CONGENITAL HEART BLOCK

T. Aina¹, J. Co-Vu², M. Irwin¹

¹Anesthesiology, UF, Gainesville, Florida; ²Pediatric Cardiology, UF, Gainesville, Florida

CC-130 TEE IN THE SETTING OF SEVERE PULMONARY HYPERTENSION

J. Lee^{1,2}, K. Gipson^{1,2}

¹Anesthesiology, University of Connecticut, Farmington, Connecticut; ²Anesthesiology, John Dempsey Hospital, Farmington, Connecticut

CC-131 POSTOPERATIVE VISION LOSS FOLLOWING CRANIOTOMY FOR REPAIR OF CEREBRAL ANEURYSMS

J. E. DeVore, R. Harika, C. Moran, I. A. Hilmi

Anesthesiology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

CC-132 ANESTHETIC MANAGEMENT OF COMBINED COMPLEX SURGICAL PROCEDURES: MINIMALLY INVASIVE ROBOTICALLY ASSISTED HEPATIC RESECTION AND VIDEO ASSISTED THORACOSCOPIC LUNG RESECTION

J. L. Raytis, M. W. Lew

Anesthesiology, City of Hope, Duarte, California

CC-133 CHALLENGING CASE REPORT - IMPENDING AIRWAY OBSTRUCTION IN A PATIENT WITH SUPERWARFARIN POISONING

C. V. Cernicica, M. Rollins

Anesthesia, UCSF, San Francisco, California

Neuroscience in Anesthesiology and Perioperative Medicine – 4

Abstracts in Poster Discussion Round: S-186 – S-191

Presenters in Attendance: 2:00 pm – 3:30 pm

PR02-22

Poster Moderator: J. Pasternak, MD, *Mayo Clinic, Rochester, Minnesota*

S-186 THE RELATIONSHIP BETWEEN BISPECTRAL INDEX AND POSTOPERATIVE MEMORY FORMATION

M. Allain¹, X. Zheng¹, G. Tobin², C. Wiest², M. F. O'Connor², D. Glick²

¹Pritzker School of Medicine, University of Chicago, Chicago, Illinois; ²Anesthesia and Critical Care, University of Chicago, Chicago, Illinois

S-187 ISOFLURANE POST-TREATMENT AMELIORATES GERMINAL MATRIX HEMORRHAGE-INDUCED BRAIN INJURY BY ACTIVATING THE SPHINGOSINE KINASE/AKT PATHWAY IN NEONATAL RATS

A. S. Leitzke¹, W. B. Rolland², P. R. Krafft², T. Lekic², D. Klebe², R. Applegate¹, J. Zhang^{2,3}

¹Department of Anesthesiology, Loma Linda University, Loma Linda, California; ²Department of Physiology and Pharmacology, Loma Linda University, Loma Linda, California; ³Department of Neurosurgery, Loma Linda University, Loma Linda, California

S-188 ISOFLURANE-FENTANYL ANESTHESIA INDUCES CELL DEATH AND MICROGLIAL ACTIVATION IN THE NEONATAL PIGLET BRAIN

R. D. Sanders, I. Fierens, K. Broad, M. Ezzati, J. Hassell, G. Raivich, N. J. Robertson

University College London, London, United Kingdom

S-189 ANESTHETIC MANAGEMENT OF LASER INTERSTITIAL THERMAL THERAPY IN AWAKE PATIENTS: A CASE SERIES REPORT

S. Syed, S. Cohen, M. Kaufman, A. Mohiuddin, C. W. Hunter

Anesthesia, Robert Wood Johnson University Hospital-UMDNJ, New Brunswick, New Jersey

S-190 DOES REMIFENTANIL IMPROVE HEMODYNAMIC STABILITY DURING PLACEMENT OF A MAYFIELD HEAD FIXATION DEVICE COMPARED TO PROPOFOL ALONE? A RANDOMIZED, PLACEBO-CONTROLLED DOUBLE-BLINDED COMPARATIVE EFFECTIVENESS STUDY

C. Willie^{1,2}, N. Moreland², E. McNicholas², L. B. Hemmer^{2,3}, J. F. Bebaawy^{2,3}, D. K. Gupta^{2,3}

¹Pediatric Critical Care Medicine, Northwestern University Feinberg School of Medicine, Chicago, Illinois; ²Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois; ³Neurological Surgery, Northwestern University Feinberg School of Medicine, Chicago, Illinois

S-191 IMPROVING DEEP BRAIN STIMULATION THROUGH TARGETED SYNAPTIC MODIFICATION

B. D. Heifets¹, K. Deisseroth^{2,3}, R. Malenka², B. MacIver¹

¹Anesthesia, Stanford University Medical Center, Stanford, California; ²Psychiatry, Stanford University, Palo Alto, California; ³Bioengineering, Stanford University, Palo Alto, California

Moderated Poster Discussion Rounds • Sunday, May 5

Obstetric Anesthesiology – 3

Abstracts in Poster Discussion Round: S-215 – S-220

Presenters in Attendance: 2:00 pm – 3:30 pm

PR02-23

Poster Moderator: R. McCarthy, MD, *Northwestern University, Chicago, Illinois*

S-215 CORTICAL FUNCTIONAL CONNECTIVITY IN PRE-ECLAMPSIA: REPORT OF TWO CASES WITH RESTING-STATE FUNCTIONAL MRI ANALYSIS

H. Kurosaki, K. Nakahata, K. Ejiri, T. Kakutani, K. Nishikawa
Anesthesiology, Wakayama Medical University, Wakayama, Japan

S-217 MATERNAL CARDIAC OUTPUT IS NOT IMPROVED DURING LATERAL TILT WITH THE OPERATING TABLE FOR TERM PARTURIENTS

V. H. Ross, L. Harris, P. H. Pan
Anesthesiology, Wake Forest University School of Medicine, Winston-Salem, North Carolina

S-218 NON-COMPACTION CARDIOMYOPATHY IN A TERM PARTURIENT

A. Hemmad, K. Chap, M. Rupasinghe
Anesthesiology, UT Houston, Houston, Texas

S-219 SOCIOECONOMIC AND OBSTETRIC PREDICTORS OF EPIDURAL ANALGESIA UTILIZATION DURING LABOR AT AN ACADEMIC MEDICAL CENTER

J. M. Miranda¹, J. Lucero¹, J. R. Feiner¹, Y. Cheng², M. Rollins¹
¹Anesthesia and Perioperative Care, University of California San Francisco, San Francisco, California; ²Obstetrics, Gynecology and Reproductive Sciences, University of California San Francisco, San Francisco, California

S-220 USE AND OUTCOMES OF ROBOTIC-ASSISTED VS. CONVENTIONAL LAPAROSCOPIC HYSTERECTOMY FOR BENIGN DISEASE IN THE UNITED STATES

E. B. Rosero¹, K. Kho², G. Joshi¹
¹Anesthesiology, UTSW Medical Center, Dallas, Texas; ²Obstetrics & Gynecology, UT Southwestern Medical Center, Dallas, Texas

Pain Medicine – 3

Abstracts in Poster Discussion Round: S-249 – S-254

Presenters in Attendance: 2:00 pm – 3:30 pm

PR02-24

Poster Moderator: To be announced

S-249 PREGABALIN FOR ACUTE POSTOPERATIVE PAIN-A SYSTEMATIC REVIEW AND META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

N. Eipe¹, J. Penning¹, M. Ansari², F. Yazdi², L. Turner²
¹The Ottawa Hospital, Ottawa, Ontario, Canada; ²Knowledge Synthesis Group, Centre for Practice-Changing Research, Ottawa Hospital Research Institute, Ottawa, Ontario, Canada

S-250 PERIOPERATIVE SYSTEMIC MAGNESIUM TO MINIMIZE POSTOPERATIVE PAIN: A META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

G. D. Oliveira, R. J. McCarthy
Northwestern University, Chicago, Illinois

S-251 AIR CONTRAST FOR FACET JOINT INJECTIONS IN A CONTRAST ALLERGIC PATIENT: A CASE STUDY

R. B. Martin, D. R. Solanki, T. Lin
Anesthesiology, UTMB, Galveston, Texas

S-253 SPIRITUALITY AND RELIGIOSITY DURING THE PERIOPERATIVE PERIOD FOR CANCER PATIENTS AND THEIR FAMILY: A SYSTEMATIC REVIEW

J. Hunsberger¹, J. Cheng², R. Aslakson¹
¹Anesthesiology and Critical Care Medicine, Johns Hopkins Hospital, Baltimore, Maryland; ²General Palliative Care, Johns Hopkins Hospital, Baltimore, Maryland

S-254 THE CLINICAL INVESTIGATION OF 50203 PATIENTS UNDERGONE PAIN-FREE ENDOSCOPY

S. Zhu, J. Liu, W. Li
Jinling Hospital, Nanjing, China

Patient Safety – 4

Abstracts in Poster Discussion Round: S-282 – S-287

Presenters in Attendance: 2:00 pm – 3:30 pm

PR02-25

Poster Moderator: M. Lovrinevic, MD, *Roswell Park Cancer Institute, Buffalo, New York*

S-282 AIRWAY AND ANESTHETIC MANAGEMENT IN PATIENTS WITH CORNELIA DE LANGE SYNDROME: DIFFERENT CONCERNS FOR CHILDREN AND ADULTS

K. Schroeder², J. May¹, B. W. Thomas¹, Y. Bryan¹
¹Anesthesiology, Wake Forest School of Medicine, Winston-Salem, North Carolina; ²Wake Forest University, Winston-Salem, North Carolina

S-283 HOSPITAL-WIDE CATHETER-RELATED BLOODSTREAM INFECTION (CRBSI) ERADICATION. A FAILED TRY

C. Vannucci¹, P. Burtin¹, A. Marie¹, J. Bignon¹, P. Andre², R. Choukhi¹
¹Clinique du Millénaire, Montpellier, France; ²Hygiène Hospitalière, Clinique du Millénaire, Montpellier, France

S-284 VENOUS THROMBOEMBOLIC DISEASE AFTER BARIATRIC SURGERY – A SINGLE CENTER REPORT

A. Marie¹, P. Burtin¹, C. Vannucci¹, C. Halchini¹, D. Cresienzo², M. Barral¹
¹Clinique du Millénaire, Montpellier, France; ²Chirurgie Digestive, Clinique du Millénaire, Montpellier, France

S-285 HIP FRACTURE ACCELERATED SURGICAL TREATMENT AND CARE TRACK (HIP ATTACK) TRIAL-FEASIBILITY PILOT

G. A. Lurati Buse^{1,2}, M. Bhandari^{3,4}, P. Devereaux^{2,3}, T. Investigator^{4,2}

¹Anesthesiology, University Hospital of Basel, Basel, Switzerland;

²Population Health Research Institute, McMaster University, Hamilton, Ontario, Canada; ³Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, Ontario, Canada; ⁴Hamilton Health Sciences, Hamilton, Ontario, Canada

S-286 THE USE OF NONINVASIVE RESPIRATORY VOLUME MONITORING TO ASSESS OBSTRUCTIVE SLEEP APNEA IN THE POST-ANESTHESIA CARE UNIT

C. Voscopoulos⁴, L. M. Campana¹, E. George², J. Freeman¹, D. Ladd³, C. MacNabb¹, J. C. Lee¹

¹Respiratory Motion, Inc., Waltham, Massachusetts; ²Anesthesiology, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts; ³West Virginia University, Morgantown, West Virginia; ⁴Anesthesiology, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts

S-287 USE OF A NON-INVASIVE RESPIRATORY VOLUME MONITOR TO IDENTIFY OPIOID INDUCED RESPIRATORY DEPRESSION IN THE POST-ANESTHESIA CARE UNIT

C. Voscopoulos¹, J. Freeman², D. Ladd³, J. B. Brayanov², C. MacNabb², E. George⁴

¹Anesthesiology, Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts; ²Respiratory Motion, Inc., Waltham, Massachusetts; ³West Virginia University, Morgantown, West Virginia; ⁴Anesthesiology, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts

Technology, Computing and Simulation - 3

Abstracts in Poster Discussion Round: S-375 – S-379

Presenters in Attendance: 2:00 pm – 3:30 pm

PR02-26

Poster Moderator: TBD

S-375 ELECTROMYOGRAPHIC AND ACCELEROMYOGRAPHIC ASSESSMENT OF ONSET AND RECOVERY OF NEUROMUSCULAR BLOCK

G. Murphy¹, S. Patel¹, J. Witteveen³, D. Hampton⁴, S. J. Brull^{2,4}

¹Anesthesiology, NorthShore University Health System, Evanston, Illinois;

²Anesthesiology, Mayo Clinic, Jacksonville, Florida;

³Engineering, Applied Biomedical Systems, Maastricht, Netherlands;

⁴Engineering, T4Analytics, LLC, Atlanta, Georgia

S-376 THE LIMITS OF LIMITS OF AGREEMENT

R. H. Thiele¹, T. McMurry²

¹Anesthesiology, University of Virginia, Charlottesville, Virginia;

²Public Health Sciences, University of Virginia, Charlottesville, Virginia

S-377 VALIDATION OF BOOTSTRAP ESTIMATION OF COMBINED ANESTHESIA AND SURGICAL TIME FOR CARDIAC SURGICAL PROCEDURES

S. Mantha

Anesthesiology and Intensive Care, Nizam's Institute of Medical Sciences, Hyderabad, India

S-378 HIGHFLOW NEBULIZER® SUPPLIES HIGH FLOW OXYGEN AND SHORTENS THE REQUIRED TIME FOR PREOXYGENATION

A. Motoyasu, K. Moriyama, K. Moriyama, S. Mitsuda, T. Yorozu

Anesthesiology, Kyorin University School of Medicine, Tokyo, Japan

S-379 THE NOISE BECOMES THE SIGNAL: VARIATIONS IN TIDAL VOLUME AND EXHALED CO₂ CAN BE USED TO CALCULATE PULMONARY BLOOD FLOW

D. Preiss

Department of Anesthesia, Critical Care and Pain Medicine,

Massachusetts General Hospital, Boston, Massachusetts

Cardiovascular Anesthesiology - 4

Abstracts in Poster Discussion Round: S-84 – S-88

Presenters in Attendance: 3:30 pm – 5:00 pm

PR02-27

Poster Moderator: J. Sear, MA, BSc, MBBS, PhD, University of Oxford, Oxford, United Kingdom

S-84 AUTOLOGOUS PLATELET RICH PLASMA (APRP) TECHNIQUE IMPACT ACUTE TYPE A AORTIC DISSECTION SURGERY ON BLOOD TRANSFUSION AND CLINICAL OUTCOME

S. Zhou¹, A. L. Estrera², P. G. Loubser¹, R. Sheinbaum¹, H. Safi²

¹Anesthesiology, The University of Texas Houston Medical School, Houston, Texas; ²Department of Cardiothoracic and Vascular Surgery, The University of Texas Houston Medical School, Houston, Texas

S-85 MANAGEMENT OF ANTI-COAGULATION ON CARDIOPULMONARY BYPASS IN A PATIENT WITH FACTOR XII DEFICIENCY

N. Verma, S. Pani, F. Sheikh

Albany Medical Center, Albany, New York

S-86 NEURONAL GAMMA PROTEIN KINASE C MEDIATES REMOTE CARDIOPROTECTION IN RATS

E. R. Gross^{1,3}, A. K. Hsu², T. J. Urban^{1,3}, G. J. Gross², D. Mochly-Rosen³

¹Anesthesiology, Stanford University, Stanford, California;

²Pharmacology, Medical College of Wisconsin, Milwaukee,

Wisconsin; ³Chemical and Systems Biology, Stanford University, Stanford, California

S-87 COMPARISON OF EPIDURAL ANESTHESIA AND POSTOPERATIVE ANALGESIA WITH ROPIVACAINE WITH DEXMEDETOMIDINE IN OFF-PUMP CORONARY ARTERY BYPASS GRAFTING: A RANDOMIZED CONTROLLED DOUBLE BLIND STUDY

G. S. Tomar, S. Ganguly

Department of Anesthesiology & Critical Care, St. Stephen's Hospital, New Delhi, India

S-88 EFFECT OF PRESSURE CONTROLLED VENTILATION VS VOLUME CONTROLLED VENTILATION IN ONE LUNG VENTILATION IN THORACIC SURGERY

I. Asouhidou¹, T. Vanakas¹, E. Spirou¹, T. Karaikos^{2,1}

¹Cardioanesthesia, G.Papanikolaou, Thessaloniki, Greece;

²Cardiothoracic Surgery, G.Papanikolaou, Thessaloniki, Greece

Moderated Poster Discussion Rounds • Sunday, May 5

Challenging Case Reports - 8

Abstracts in Poster Discussion Round: CC-134 – CC-138

Presenters in Attendance: 3:30 pm – 5:00 pm

PR02-28

Poster Moderator: C. Abdallah, MD, MSc, *Children's National Medical Center, Washington, DC*

CC-134 EPIDURAL BLOOD PATCH FOR PATIENT WITH POSTDURAL PUNCTURE HEADACHE AND ACUTE MYELOGENOUS LEUKEMIA

M. J. Sharpe, R. Jan

Anesthesiology, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania

CC-135 A DIFFICULT CASE OF UNEXPECTED SUPRAGLOTTIC AIRWAY MASS

A. Sullivan^{2,1}, G. Rai1

¹Anesthesiology, Veteran's Affairs, Denver, Colorado; ²Anesthesiology, University of Colorado, Denver, Colorado

CC-136 CHALLENGING CASE REPORT - MATERNAL CONVULSIVE ACTIVITY DURING STEADY STATE SEVOFLURANE ANESTHESIA FOR FETAL SURGERY

C. W. Shavit, J. Ghassemi, M. Ferschl, M. Rollins

Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California

CC-137 AVAILABILITY OF INITIAL DISTRIBUTION VOLUME OF GLUCOSE (IDVG) FOR THE VOLUME CONTROL IN PULMONARY DECOMPRESSION ILLNESS; 'THE CHOKES'

K. Arakaki, K. Kamizato, T. Fuchigami, K. Teruya, M. Kakinohana, K. Sugahara

Faculty of Medicine, University of the Ryukyus, Nishihara, Japan

CC-138 ELECTIVE USE OF INTRA-AORTIC BALLOON PUMP IN ELDERLY PATIENTS REDUCES POSTOPERATIVE CARDIAC COMPLICATIONS AFTER AORTIC VALVE REPLACEMENT SURGERY

J. Nakahira, T. Sawai, T. Minami

Department of Anesthesiology, Osaka Medical College, Osaka, Japan

Economics, Education and Policy - 2

Abstracts in Poster Discussion Round: S-142 – S-146

Presenters in Attendance: 3:30 pm – 5:00 pm

PR02-29

Poster Moderator: N. Nussmeier, MD, *Upstate Medical University, Syracuse, New York*

S-142 SMOKING AND PERIOPERATIVE OUTCOMES

D. Roberman

Anesthesiology, Hahnemann University Hospital, Philadelphia, Pennsylvania

S-143 A STUDY OF READING SKILLS, STRESS AND ITE SCORES AMONG ANESTHESIA RESIDENTS

S. Goldstein¹, L. Vanderberg², M. Sandison³, J. Berger⁴, M. E. Pierce⁵, S. Kimatian⁶

¹Anesthesiology, New Jersey Medical School, Newark, New Jersey; ²Office of the Dean, College of Education and Human Development, University of Massachusetts Boston, Boston, Massachusetts; ³Anesthesiology, Albany Medical Center, Albany, New York; ⁴Anesthesiology and Critical Care Medicine, George Washington University School of Medicine and Health Sciences, Washington, DC; ⁵Education, Stonehill College, Easton, Massachusetts; ⁶Anesthesiology Institute, Cleveland Clinic, Cleveland, Ohio

S-144 ALLOWABLE ANESTHESIA PROVIDER ACTIVITIES IN THE OPERATING ROOM: A SURVEY OF ACADEMIC ANESTHESIOLOGY CHAIRPERSONS AND LARGE PRIVATE PRACTICE GROUPS

J. Kirsch, K. Lalwani, L. Robinson

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

S-145 REFINING A SURVEY TO ASSESS ANESTHESIA RESIDENT PROFESSIONALISM AND COMMUNICATION SKILLS

J. D. Mitchell, C. Ku, L. J. Fisher, S. Muret-Wagstaff, V. Wong, S. B. Jones

Anesthesia, Critical Care, and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-146 HOSPICE & PALLIATIVE MEDICINE ROTATION FOR ANESTHESIA RESIDENTS

P. Sloan¹, A. Dilorenzo¹, R. Schell¹, S. Whisman^{2,1}, T. Cote², M. Fedorchuk²

¹Anesthesiology, University of Kentucky, Lexington, Kentucky;

²Hospice of the Bluegrass, Lexington, Kentucky

Patient Safety - 5

Abstracts in Poster Discussion Round: S-288 – S-293

Presenters in Attendance: 3:30 pm – 5:00 pm

PR02-30

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

S-288 A NOVEL CASE-BASED, ANESTHESIA-FOCUSED PATIENT SAFETY TEACHING SESSION THAT LEADS TO IMPROVED EDUCATIONAL OUTCOMES IN MEDICAL STUDENTS

S. McLean, G. Noble, O. Applegarth

Department of Anesthesiology, Pharmacology and Therapeutics, University of British Columbia, Vancouver, British Columbia, Canada

S-289 USE OF A CONTINUOUS NON-INVASIVE RESPIRATORY VOLUME MONITOR IN POSTOPERATIVE CARDIAC SURGERY PATIENTS BEFORE AND AFTER ENDOTRACHEAL EXTUBATION

N. Marengi¹, J. B. Brayanov², M. England¹, C. MacNabb², L. M. Campana², D. Pham¹, S. Ianchulev¹

¹Anesthesiology, Tufts Medical Center, Boston, Massachusetts;

²Respiratory Motion, Inc., Waltham, Massachusetts

S-290 QUANTIFYING RESPIRATORY DEPRESSION FOLLOWING BENZODIAZEPINE ADMINISTRATION WITH A NON-INVASIVE RESPIRATORY VOLUME MONITOR

G. Mullen¹, C. Voscopoulos², J. B. Brayanov³, D. Ladd⁴, E. Cho³, J. Freeman³

¹Anesthesiology, Vidant Medical Center, Greenville, North Carolina;

²Anesthesiology, Brigham and Womens Hospital, Harvard Medical

School, Boston, Massachusetts; ³Respiratory Motion, Inc., Waltham,

Massachusetts; ⁴West Virginia University, Morgantown, West Virginia

S-291 RISK-BASED DECISION SUPPORT THRESHOLDS IN ADULT PATIENTS UNDERGOING NON-CARDIAC SURGERY - A VALIDATION STUDY

W. H. Stapelfeldt¹, J. Dalton², P. Bromley¹, J. Cywinski¹, M. Reynolds¹, B. Ghosh¹

¹General Anesthesiology, Cleveland Clinic, Cleveland, Ohio;

²Quantitative Health Sciences, Cleveland Clinic, Cleveland, Ohio

S-292 ELEVATED LIDOCAINE SERUM CONCENTRATION FOLLOWING J-TIP® ADMINISTRATION IN PEDIATRIC PATIENTS

P. Guler^{1,4}, A. Cohen^{2,4}, L. Watt¹, M. Lau¹, C. El Saleeby^{3,4}

¹Anesthesia, Critical Care and Pain Medicine, Massachusetts General

Hospital, Boston, Massachusetts; ²Pediatric Emergency Medicine,

Massachusetts General Hospital, Boston, Massachusetts; ³Pediatrics,

Massachusetts General Hospital, Boston, Massachusetts; ⁴Harvard

Medical School, Boston, Massachusetts

S-293 ANESTHETIC CARE AND EARLY PERIOPERATIVE OUTCOME OF SUPER OBESE PATIENTS UNDERGOING BARIATRIC SURGERY

D. Beebe¹, N. Kaur^{1,2}, H. Singh¹, S. Ikramuddin², K. G. Belani¹

¹Anesthesiology, University of Minnesota, Minneapolis, Minnesota;

²Surgery, University of Minnesota, Minneapolis, Minnesota

Pediatric Anesthesiology - 4

Abstracts in Poster Discussion Round: S-326 - S-329

Presenters in Attendance: 3:30 pm - 5:00 pm

PR02-31

Poster Moderator: P. Davis, MD, *Children's Hospital of Pittsburgh of UPMC, Pittsburgh, Pennsylvania*

S-326 MINIMUM ALVEOLAR CONCENTRATION OF DESFLURANE WITH CAUDAL BLOCK FOR LARYNGEAL MASK AIRWAY REMOVAL IN ANESTHETIZED CHILDREN

J. K. Makkar, B. Ghai, J. Wig

Department of Anaesthesia and Intensive Care, Post Graduate

Institute of Medical Education & Research, Chandigarh, India

S-327 L-CARNITINE AMELIORATES PROPOFOL-INDUCED TOXICITY IN RAT EMBRYONIC NEURAL STEM CELLS

C. Wang, F. Liu, C. M. Fogle, M. G. Paule, W. Slikker

National Center for Toxicological Research, Jefferson, Arkansas

S-328 PARENTAL PRESENCE AT INDUCTION OF ANESTHESIA: A SURVEY OF ATTITUDES AND PRACTICE COMPARING CANADA AND THE UK

D. Withington^{1,3}, H. Neary^{3,2}

¹Anesthesia, McGill University, Montreal, Quebec, Canada;

²Anesthesia, Alder Hey Children's Hospital, Liverpool, United

Kingdom; ³Anesthesia, Montreal Children's Hospital, Montreal,

Quebec, Canada

S-329 ANESTHETIC MANAGEMENT USING THE AWAKE LMA TECHNIQUE IN A 4-DAY-OLD INFANT WITH AN ANTERIOR SKULL BASE MASS CAUSING COMPLETE NASAL OBSTRUCTION

A. Kalra, C. M. McArtor, T. Adams, R. Schumann

Anesthesiology, Tufts Medical Center, Boston, Massachusetts

Anesthetic Pharmacology - 5

Abstracts in Poster Discussion Round: S-57 - S-61

Presenters in Attendance: 3:30 pm - 5:00 pm

PR02-32

Poster Moderator: K. Johnson, MD, *University of Utah, Salt Lake City, Utah*

S-57 DIAZEPAM INHIBITS THE PROLIFERATION OF GLIOBLASTOMA CELLS BY INDUCING G0/G1 CELL CYCLE ARREST

L. Mao¹, J. Chen³, S. Lin², W. Zhu³, J. Lin¹

¹SUNY Downstate, Brooklyn, New York; ²Guangzhou Cellproteck

Pharmaceutical Co., Guangzhou, China; ³Zhongshan School of

Medicine, Guangzhou, China

S-58 DESFLURANE PRECONDITIONING INDUCES OSCILLATION OF NF-KB IN HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS

B. Zhu, J. Yi

Anesthesia and Critical Care, Zhongshan Hospital, Fudan University,

Shanghai, China

S-59 MIDAZOLAM INHIBITS THE PROLIFERATION OF HYPOPHARYNGEAL SQUAMOUS CANCER CELLS BY SUPPRESSING THE ACTIVITY OF TRANSIENT RECEPTOR POTENTIAL MELASTATIN 7

J. Lin¹, J. Chen³, S. Lin², L. Mao¹, W. Zhu³

¹SUNY Downstate, Brooklyn, NY; ²Guangzhou Cellproteck

Pharmaceutical Co., Guangzhou, China; ³Pharmacology, Zhongshan

School of Medicine, Guangzhou, China

S-60 NO ADVANTAGE OF TIVA VERSUS INHALED GENERAL ANESTHESIA DURING TRANSPHENOIDAL SURGERY

M. Riess^{1,2}, S. Gollapudy², J. Sidhu², H. J. Woehlck²

¹Anesthesiology, Clement J. Zablocki VA Medical Center, Milwaukee,

Wisconsin; ²Anesthesiology, Medical College of Wisconsin,

Milwaukee, Wisconsin

PR02-32, continued

S-61 SMALL-DOSE KETAMINE WITH THIOPENTONE AND REMIFENTANIL IMPROVES HEMODYNAMIC STABILITY DURING INDUCTION THAN THIOPENTONE WITH REMIFENTANIL

M. Uchida

Anesthesiology, Shounan Kamakura General Hospital, Kamakura, Japan

Regional Anesthesia – 2

Abstracts in Poster Discussion Round: S-341 – S-346

Presenters in Attendance: 3:30 pm – 5:00 pm

PR02-33

Poster Moderator: R. Ganta, MD, FRCA, VAMC and OU Medical Center, Oklahoma City, Oklahoma

S-341 ANALGESIC EFFECT OF THE CONTINUOUS BILATERAL TRANSVERSUS ABDOMINIS PLANE BLOCK USING LEVOBUPIVACAINE AFTER GYNECOLOGICAL LAPAROTOMY

A. Maeda, S. Shibata

Department of Anesthesiology and Intensive Care Medicine, Graduate School of Medicine, Osaka University, Suita City, Japan

S-342 A PROSPECTIVE RANDOMISED DOUBLE BLIND STUDY TO EVALUATE THE EFFECT OF INTRATHECAL LOW DOSE DEXMEDETOMIDINE VERSUS CLONIDINE ON SPINAL BLOCK CHARACTERISTICS IN SURGERIES BELOW UMBILICUS

A. Gupta², N. Gupta¹

¹Anesthesiology and Intensive Care, Dr. Brairch, Aiiims, Delhi, India, New Delhi, India; ²Anesthesiology, ESIC Hospital, Okhla, New Delhi, India

S-343 IN VITRO EXPOSURE TO LOCAL ANESTHETICS IMPAIRS HUMAN OSTEOBLASTS CELL GROWTH

I. K. Herrmann, J. M. Bonvini, R. Schuler, M. Urner, A. Borgeat, B. Beck-Schimmer

Institute of Anesthesiology, University Hospital Zurich, Zurich, Switzerland

S-344 COMPARISON OF ULTRASOUND-GUIDED PARAVERTEBRAL BLOCK ANALGESIA WITH PORT-SITE INFILTRATION OF ROPIVACAINE IN PATIENTS UNDERGOING LAPAROSCOPIC DONOR NEPHRECTOMY

I. M. Sen^{1,2}, J. Kawarti^{1,2}, N. B. Panda^{1,2}, M. Minz^{2,1}

¹Anaesthesia and Intensive Care, Post Graduate Institute of Medical Education & Research, Chandigarh, India; ²Transplant Surgery, Post Graduate Institute of Medical Education & Research, Chandigarh, India

S-345 REGIONAL VERSUS GENERAL ANESTHESIA IN SURGICAL PATIENTS WITH COPD: DOES AVOIDING GENERAL ANESTHESIA REDUCE THE RISK OF POST-OPERATIVE COMPLICATIONS?

M. S. Hausman, E. Jewell, M. Engoren

Department of Anesthesiology, University of Michigan, Ann Arbor, Michigan

S-346 COMPARATIVE EVALUATION OF GENERAL V/S THORACIC EPIDURAL ANESTHESIA FOR LAPAROSCOPIC CHOLECYSTECTOMY

S. Kaur

Anesthesia, Medical College Amritsar, Amritsar, India

Technology, Computing and Simulation – 4

Abstracts in Poster Discussion Round: S-380 – S-385

Presenters in Attendance: 3:30 pm – 5:00 pm

PR02-34

Poster Moderator: E. Rebello, MD, MD Anderson Cancer Center, Houston, Texas

S-380 THE RELATIONSHIP BETWEEN BISPECTRAL INDEX AND PREOPERATIVE MEMORY FORMATION

M. Allain¹, X. Zheng¹, E. Sobol², P. O'Connor², M. F. O'Connor², D. Glick²

¹Pritzker School of Medicine, University of Chicago, Chicago, Illinois; ²Anesthesia and Critical Care, University of Chicago, Chicago, Illinois

S-381 EVALUATION OF CEREBRAL OXYGEN SATURATION IN HEALTHY VOLUNTEERS

K. Brown¹, K. G. Belani¹, R. Adhikari¹, A. Lobbestael², H. Singh¹, D. Beebe¹

¹Anesthesiology, University of Minnesota, Minneapolis, Minnesota; ²Statistics, Nonin Medical Inc., Plymouth, Minnesota

S-382 TWITCH AMPLITUDE VS MAXIMAL RATE OF CHANGE FOR MECHANOMYOGRAPHIC ASSESSMENT OF NEUROMUSCULAR BLOCKADE

H. Sunaga¹, P. M. Heerdt^{1,2}, J. Zhang¹, J. K. Malhotra¹, M. T. Murrell¹, C. A. Lien¹

¹Anesthesiology, Weill Cornell Medical College, New York, New York; ²Pharmacology, Weill Cornell Medical College, New York, New York

S-383 MULTI-CENTRE EVALUATION OF CLOSED LOOP ANAESTHESIA DELIVERY SYSTEM - CLADS

G. D. Puri¹, J. Sood², A. Dutta², S. Gombhar³, T. Punia⁵, P. Gautam⁴, P. J. Mathews¹

¹Anaesthesia and Intensive Care, PGIMER, Chandigarh, India; ²Anaesthesia and Intensive Care, SGRH, New Delhi, India; ³Anaesthesia and Intensive Care, GMCH 32, Chandigarh, India; ⁴Anaesthesia and Intensive Care, DMC, Ludhiana, India; ⁵Anaesthesia and Intensive Care, Rajindra Hospital, Patiala, India

S-384 PORTABLE SIMULATION CREATES A TOOL TO ANALYZE EXPERT COGNITION IN A BUSY WORK ENVIRONMENT

S. Kellman¹, Y. Bitan¹, G. Greenfield², M. E. Nunnally¹

¹Department of Anesthesia & Critical Care, University of Chicago, Chicago, Illinois; ²Department of Primary Care and Public Health, School of Public Health, Imperial College, London, United Kingdom

S-385 EVALUATION OF ABSOLUTE AND TREND ACCURACY OF REVISION G NONINVASIVE AND CONTINUOUS HEMOGLOBIN MONITORING DURING MAJOR SURGERY

R. Applegate, C. Collier, D. Mangus, S. Barr, M. Macknet, M. Hassanian, M. Allard

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

Discussion Times: 8:00 am - 9:30 am	Page
Airway Management 3	66
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Discussion Times: 9:30 am - 11:00 am	Page
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Patient Safety 7	69
Pediatric Anesthesiology 3.	69
Technology, Computing and Simulation 5.	69

Discussion Times: 11:30 am - 1:00 pm	Page
Cardiovascular Anesthesiology 5	70
Challenging Case Reports 11	70
Neuroscience in Anesthesiology and Perioperative Medicine 5	70
Pain Mechanisms 2	71
Pain Medicine 4	71
Patient Safety 8	71
Regional Anesthesia 3	72
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LEARNER OBJECTIVES:

As a result of participating in this educational activity, learners will be able to describe recent advances in anesthesiology practice and patient care from the topic area and incorporate this new knowledge into their professional practice.

Moderated Poster Discussion Rounds • Monday, May 6

Airway Management – 3

Abstracts in Poster Discussion Round: S-14 – S-18

Presenters in Attendance: 8:00 am – 9:30 am

PR03-01

Poster Moderator: I. Hilmi, MB CHB, FRCA, *University of Pittsburgh, Wexford, Pennsylvania*

S-14 AIRWAY AND ANESTHETIC MANAGEMENT IN PATIENTS WITH LARYNGEAL MASSES AND TUMORS

K. Patel², J. May¹, D. Whelan¹, M. Laxton¹, Y. Bryan¹

¹Anesthesiology, Wake Forest School of Medicine, Winston-Salem, North Carolina; ²West Virginia University School of Medicine, Morgantown, West Virginia

S-15 COMPARISON OF VENTILATION WITH THE NUMASK® VS. TRADITIONAL MASK, A PROSPECTIVE, RANDOMIZED, CROSSOVER STUDY

B. S. Nance, J. Farr, G. Wallace, D. Sakata, N. Pace

Anesthesiology, University of Utah, Salt Lake City, Utah

S-16 EFFECTIVENESS OF OXYGEN DELIVERY AND RELIABILITY OF CO₂ WAVEFORMS: A CROSSOVER COMPARISON OF FOUR NASAL CANNULAS

T. J. Ebert^{2,1}, J. Novalija^{2,1}, J. A. Barney^{2,1}, T. D. Uhrich^{2,1}

¹Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin; ²Anesthesiology, Zablocki VA Medical Center, Milwaukee, Wisconsin

S-17 ULTRASOUND-GUIDED AIRWAY BLOCKS

J. Hedden, L. Maracaja-Neto, A. Hummel, J. Mazer, D. Dimaculangan

Anesthesiology, SUNY Downstate Medical Center, Brooklyn, New York

S-18 AIRWAY AND ANESTHETIC MANAGEMENT IN PATIENTS WITH OROPHARYNGEAL MASSES OR TUMORS: DEVICES, TECHNIQUES, AND OUTCOMES

A. Morgan, J. May, D. Whelan, A. Blevins, Y. Bryan

Anesthesiology, Wake Forest School of Medicine, Winston-Salem, North Carolina

Challenging Case Reports – 2

Abstracts in Poster Discussion Round: CC-105 – CC-108

Presenters in Attendance: 8:00 am – 9:30 am

PR03-02

Poster Moderator: D. Bustamante, MD, *University of Tennessee, Graduate School of Medicine, Knoxville, Tennessee*

CC-105 CHALLENGING CASE REPORT: EPIGLOTTIC TUMOR IN A PATIENT WITH NEUROFIBROMATOSIS DIAGNOSED AT INDUCTION OF ANESTHESIA

F. J. Azzam

Anesthesiology, St. Louis University, St. Louis, Missouri

CC-106 CHALLENGING CASE REPORT: FACTOR XI DEFICIENCY AND REGIONAL ANESTHESIA

E. Kamenetsky, S. Afifi

Anesthesiology, Northwestern University, Chicago, Illinois

CC-107 ENDOBRONCHIAL HEMORRHAGE AFTER INTUBATION WITH DOUBLE-LUMEN ENDOTRACHEAL TUBE IN A PATIENT WITH IDIOPATHIC THROMBOCYTOPENIC PURPURA FOR MINIMALLY INVASIVE CARDIAC SURGERY

H. Kim¹, S. Baik¹, S. Baek¹, N. Kim², J. Kim¹

¹Anesthesia and Pain Medicine, Busan National University Yangsan Hospital, Yangsan, Republic of Korea; ²Anesthesia and Pain Medicine, School of Medicine, Pusan National University, Medical Research Institute, Pusan National University Hospital, Busan, Korea, Busan, Republic of Korea

CC-108 PROPOFOL TOLERANCE IN A TWO YEAR OLD CHILD WITH SEDATION FOR RADIATION THERAPY

C. Adams, D. Ho, M. Wadhwa

Texas Tech University Health Sciences Center, Lubbock, Texas

Critical Care, Trauma and Resuscitation – 3

Abstracts in Poster Discussion Round: S-110 – S-114

Presenters in Attendance: 8:00 am – 9:30 am

PR03-03

Poster Moderator: M. Dworschak, MD, MBA, *University of Vienna, Vienna, Austria*

S-110 DOES AN INSULIN SLIDING SCALE MAINTAIN NORMOGLYCAEMIA IN ADULT CRITICAL CARE PATIENTS?

M. A. Arshad¹, C. Thompson², B. Carr³

¹Anaesthesia and Critical Care, Stoke School of Anaesthesia, Wolverhampton, United Kingdom; ²Renal Medicine and Critical Care, University Hospital of North Staffordshire, Stoke, United Kingdom; ³Anaesthesia and Critical Care, University Hospital of North Staffordshire, Stoke, United Kingdom

S-111 NASOFARYNGEAL COMPONENT OF BRAIN COOLING IN THE COMPLEX OF NON-INVASIVE BRAIN HYPOTHERMIA

V. Avakov¹, A. Khadjibaev², I. Shakhova²

¹Tashkent Medical Academy, Tashkent, Uzbekistan; ²Republican Research Centre of Emergency Medicine, Tashkent, Uzbekistan

S-112 HEMODYNAMIC RELATIONSHIP BETWEEN PULSE PRESSURE VARIATION AND FLUID BALANCE

M. F. O'Connor¹, S. Kellman¹, A. Kacha¹, J. Koyner²

¹Department of Anesthesia and Critical Care, The University of Chicago, Chicago, Illinois; ²Department of Medicine, Section of Nephrology, The University of Chicago, Chicago, Illinois

S-113 EPIDEMIOLOGY OF NON-SURGICAL RISK FACTORS FOR ANASTOMOTIC LEAKAGE AFTER MAJOR GASTROINTESTINAL SURGERY

A. Hom Choudhuri, R. Uppal, M. Kumar

Anesthesiology & Intensive Care, GB Pant Hospital, Delhi, India

S-114 POST-OPERATIVE ENTEROSTOMA MICROCIRCULATION (POEM) DATABASE

I. Abdo^{3,1}, R. Hall¹, T. Witter¹, P. Johnson², L. Williams², V. Cerny^{3,1}, C. Lehmann¹

¹Anesthesia, Dalhousie University, Halifax, NS, Canada; ²Surgery, Dalhousie University, Halifax, Nova Scotia, Canada; ³Anesthesia, Charles University, Prague, Czech Republic

Economics, Education and Policy – 3

Abstracts in Poster Discussion Round: S-147 – S-151

Presenters in Attendance: 8:00 am – 9:30 am

PR03-04

Poster Moderator: J. Ehrenfeld, MD, MPH, *Center for Evidence Based Anesthesia, Perioperative Data Systems Research, Vanderbilt University, Nashville, Tennessee*

S-147 COST-CONSEQUENCE ANALYSIS OF TROPONIN T SCREENING ON THE DETECTION OF PERIOPERATIVE MYOCARDIAL ISCHEMIA

G. A. Lurati Buse^{1,2}, B. Manns³, A. Lamy², P. Devereaux²

¹Anesthesiology, University Hospital of Basel, Basel, Switzerland; ²Population Health Research Institute, McMaster University, Hamilton, Ontario, Canada; ³Department of Medicine, University of Calgary, Calgary, Alberta, Canada

S-148 EVALUATION OF NON-TECHNICAL SKILLS IN ANESTHESIA RESIDENCY CANDIDATES BY MEDICAL STUDENTS VERSUS PROFESSIONAL FACILITATORS

S. Vaid-Pinyard¹, P. Upadya¹, V. DeBari^{2,4}, L. LaPorta^{3,4}

¹Anesthesiology, St Joseph's Regional Medical Center, Wayne, New Jersey; ²Internal Medicine, Seton Hall University, South Orange, New Jersey; ³Psychiatry, St Joseph's Regional Medical Center, Paterson, New Jersey; ⁴St. George's University, St. George, Grenada

S-149 SIGNATURES OF LARYNGOSCOPY EXPERTISE

R. Hastings¹, N. Delson²

¹Anesthesiology, VA San Diego Healthcare System, San Diego, California; ²Mechanical and Aerospace Engineering, UC San Diego, San Diego, California

S-150 USE OF AN ANESTHESIA ELECTRONIC MEDICAL RECORD TO EXAMINE EDUCATIONAL PROCESSES TO IMPROVE ANTIBIOTIC ADMINISTRATION COMPLIANCE

L. C. Jameson, K. J. Bullard, B. Davidson

Department of Anesthesiology, University of Colorado Anschutz Medical Campus, Aurora, Colorado

S-151 POTENTIAL COST SAVINGS OF HEMODYNAMIC OPTIMIZATION WITH PERIOPERATIVE GOAL DIRECTED THERAPY: A NATIONAL DATABASE STUDY

A. Asemota, G. R. Manecke

Anesthesiology, UC San Diego, San Diego, California

Patient Safety – 6

Abstracts in Poster Discussion Round: S-294 – S-298

Presenters in Attendance: 8:00 am – 9:30 am

PR03-05

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

S-294 PATIENT SAFETY CHECKLIST ADDRESSES OPIOID WARNINGS FROM JOINT COMMISSION

M. Wong

Physician-Patient Alliance for Health & Safety, Lake Forest, Illinois

S-295 KONGSBERG SATISFACTION SCORE: A NOVEL SYSTEM FOR MONITORING THE STATUS, EFFICACY AND SAFETY OF THE POSTOPERATIVE PAIN TREATMENT AFTER SURGERY

V. Kuklin¹, E. Skraastad¹, G. Ernst¹, P. Berg¹, L. J. Bjertnaes², J. Raeder³

¹Anesthesiology and Intensive Care, Kongsberg Hospital, Kongsberg, Norway; ²Anesthesiology and Intensive Care, University of Tromsø, Tromsø, Norway; ³Anesthesiology and Intensive Care, Oslo University Hospital, Oslo, Norway

S-296 REMIFENTANIL PREVENTS INCREASE OF QT DISPERSION DURING ELECTROCONVULSIVE THERAPY FOR PSYCHIATRIC PATIENTS

M. Kageyama, S. Yamaguchi, N. Higashi, S. Kokubu, T. Takasusuki, S. Hamaguchi

Department of Anesthesiology, Dokkyo Medical University, Mibu, Japan

S-297 OCCUPATIONAL EXPOSURE TO EVAPORATED DESFLURANE

R. Robel, M. T. Gwaze, T. Isaacs

Piramal Critical Care, Orchard Park, New York

S-298 INCIDENCE OF DEEP SEDATION AND RESPIRATORY COMPROMISE DURING PROCEDURAL SEDATION

R. Applegate, M. Macknet, S. Qosblli, A. Mehdizadeh, P. Jacobson, M. Neumann, M. Allard

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

Pediatric Anesthesiology – 2

Abstracts in Poster Discussion Round: S-317 – S-321

Presenters in Attendance: 8:00 am – 9:30 am

PR03-06

Poster Moderator: Y. Gozal, MD, *Shaare Zedek Medical Center, Jerusalem, Israel*

S-317 A COMPARISON OF VIDEO LARYNGOSCOPY TO DIRECT LARYNGOSCOPY FOR ENDOTRACHEAL INTUBATION IN CHILDREN YOUNGER THAN TWO YEARS OF AGE DURING MANUAL IN-LINE STABILIZATION

K. Roddy, R. Applegate, E. Ghazal, M. Vadi, A. Neiheisel

Anesthesiology, Loma Linda University, Loma Linda, California

PR03-06, continued

S-318 ANESTHETIC CARE AND OUTCOME IN CHILDREN WITH SANFILIPPO SYNDROME TYPE A

E. Cingi¹, K. Belani^{1,2}, D. Beebe¹, I. Apostolidou¹, T. Mohindroo¹, C. Whitley²

¹Anesthesiology, University of Minnesota, Minneapolis, Minnesota;

²Pediatrics, University of Minnesota, Minneapolis, Minnesota

S-319 COGNITIVE OUTCOME AFTER SPINAL ANESTHESIA IN INFANCY

R. K. Williams¹, H. Meyers², I. Black¹, D. Howard³, A. Friend¹, D. Mathews¹, D. Adams¹

¹Department of Anesthesia, Vermont Children's Hospital University of Vermont, Burlington, Vermont; ²James M. Jeffords Center for Policy Research, University of Vermont, Burlington, Vermont;

³Center for Translational and Clinical Science, University of Vermont, Burlington, Vermont

S-320 BLOOD AND FLUID TRANSFUSION REQUIREMENTS DURING NEPHRECTOMY FOR WILMS' TUMOR IN THE PEDIATRIC PATIENT

J. Santos, P. Owusu-Agyemang

The University of Texas MD Anderson Cancer Center, Houston, Texas

S-321 OPERATIONAL ANALYSIS OF A PEDIATRIC SEDATION UNIT

N. Kaur^{1,2}, J. R. Srikanthan¹, H. Singh¹, J. Peacock³, K. G. Belani¹

¹Anesthesiology, University of Minnesota, Minneapolis, Minnesota;

²Surgery, University of Minnesota, Minneapolis, Minnesota;

³University of Minnesota Medical Center, Fairview, Minneapolis, Minnesota

Challenging Case Reports – 10

Abstracts in Poster Discussion Round: CC-144 – CC-148

Presenters in Attendance: 9:30 am – 11:00 am

PR03-07

Poster Moderator: M. Ozaki, MD, PhD, Tokyo Women's Medical University, Tokyo, Japan

CC-144 VERTICAL NYSTAGMUS ASSOCIATED WITH PNEUMOCEPHALUS FROM ATTEMPTED EPIDURAL CATHETER INSERTION

E. Mathew, M. Miranda

Anesthesiology, University of Connecticut, Farmington, Connecticut

CC-145 A CHALLENGING CASE REPORT OF SEVOFLURANE-INDUCED FLUMINANT HEPATIC FAILURE FOLLOWING CADAVERIC RENAL TRANSPLANT

J. Hobbs, C. Hong

Anesthesiology and Critical Care Medicine, University of Maryland, Baltimore, Maryland

CC-146 CHALLENGING CASE REPORT: ANESTHETIC CONSIDERATIONS IN KARTAGENERS SYNDROME AND TOTAL SITUS INVERSUS

H. Murad, L. Rodriguez

Department of Anesthesiology, Perioperative Medicine and Pain Management, University of Miami/Jackson Memorial Hospital, Miami, Florida

CC-147 DELAYED BLEEDING AND POSSIBLE TAMPONADE AFTER SYNCARDIA™ TOTAL ARTIFICIAL HEART INSERTION

C. Gauran, M. Hlaing, G. Wagener

Anesthesia and Critical Care, Columbia-Presbyterian Medical Center, New York, New York

CC-148 SUCCESSFUL MANAGEMENT OF MALIGNANT HYPERTHERMIA AFTER GENERAL ANESTHESIA WITH SEVOFLORANE FOR BILATERAL MYRINGOTOMY AND TYMPANOSTOMY TUBE PLACEMENT IN A 14 MONTH OLD WITHOUT APPARENT MUSCLE RIGIDITY

K. Yates, R. Banister, C. Adams

Anesthesiology, Texas Tech Health Sciences Center, Lubbock, Texas

Critical Care, Trauma and Resuscitation- 4

Abstracts in Poster Discussion Round: S-116 – S-120

Presenters in Attendance: 9:30 am – 11:00 am

PR03-08

Poster Moderator: A. Brambrink, MD, PhD, Oregon Health and Science University, Portland, Oregon

S-116 EXTRACORPOREAL MEMBRANE OXYGENATION UTILIZING THE AVALON ELITE DUAL-LUMEN CANNULA: CLINICAL FACTORS ASSOCIATED WITH SURVIVAL

M. S. Hausman¹, A. L. McDonald³, E. Jewell¹, J. W. Haft², P. K. Park³, L. M. Napolitano³, J. M. Blum³

¹Anesthesiology, University of Michigan, Ann Arbor, Michigan;

²Cardiac Surgery, University of Michigan, Ann Arbor, Michigan;

³Surgery, University of Michigan, Ann Arbor, Michigan

S-117 OXYGRAPHIC ASSESSMENT OF MITOCHONDRIA RESPIRATORY RATE KINETICS IN A PORCINE MODEL OF SMALL BOWEL ISCHEMIA

M. Diana^{1,3}, A. Charles², Y. Nagao¹, H. Chung¹, B. Gen², N. Demartines³, J. Marescaux¹

¹General, Digestive and Endocrine Surgery, IRCAD-IHU, University of Strasbourg, Strasbourg, France; ²Physiology Laboratory, Oxidative Stress, University of Strasbourg, Strasbourg, France; ³Visceral Surgery, University Hospital of Lausanne, Lausanne, Switzerland

S-118 INSTANT CAPILLARY LACTATES TO EVALUATE BOWEL ISCHEMIA: PROOF OF CONCEPT IN A PORCINE MODEL

M. Diana^{1,3}, E. Noll², P. Diemunsch², P. Halvax¹, B. Dallemagne¹, N. Demartines³, J. Marescaux¹

¹General, Digestive and Endocrine Surgery, IRCAD-IHU, University of Strasbourg, Strasbourg, France; ²Anesthesiology, University Hospital of Strasbourg, Strasbourg, France; ³Visceral Surgery, University Hospital of Lausanne, Lausanne, Switzerland

S-119 MATHEMATICAL DISTRIBUTIONS AS MODELS FOR LENGTH OF STAY IN CARDIAC INTENSIVE CARE UNITS

D. P. Strum¹, L. G. Vargas²

¹Anesthesiology, University of Pennsylvania, Philadelphia, Pennsylvania; ²Graduate School of Business, University of Pittsburgh, Pittsburgh, Pennsylvania

Monday, May 6 • Moderated Poster Discussion Rounds

S-120 BLOOD SALVAGE EFFICIENCY FROM SURGICAL SPONGES

G. Konig¹, S. Satis², J. Weinberg², J. H. Waters¹

¹Anesthesiology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania; ²Gauss Surgical, Inc., Palo Alto, California

Patient Safety - 7

Abstracts in Poster Discussion Round S-299 – S-302

Presenters in Attendance: 9:30 am – 11:00 am

PR03-09

Poster Moderator: F. Donati, PhD, MD, FRCPC, *Université de Montréal, Quebec, Canada*

S-299 OPERATING ROOM NOISE: MORE THAN MEETS THE EAR

R. Ritchie¹, J. Shinn², A. N. DiLorenzo¹, E. A. Bowe¹

¹Anesthesiology, University of Kentucky, Lexington, Kentucky; ²Otolaryngology and Communicative Disorders, University of Kentucky, Lexington, Kentucky

S-300 USE OF A TRANSLATION APP SPEEDS EMERGENCE IN NON-NATIVE ENGLISH SPEAKERS

B. Dauber, J. Yin, D. B. Glick

Department of Anesthesia and Critical Care, University of Chicago, Chicago, Illinois

S-301 PREVALENCE OF RECOMMENDED SECONDARY PREVENTION DRUG THERAPIES IN PATIENTS WITH CORONARY ARTERY DISEASE

J. Donnelly, A. Ben Abdallah, A. Saetelle, T. S. Wildes

Department of Anesthesiology, Washington University School of Medicine, St. Louis, Missouri

S-302 DEPTH OF SEDATION DOES NOT PREDICT EPISODES OF APNEA

D. R. Drover, P. Tanaka

Anesthesia, Stanford University, Stanford, California

Pediatric Anesthesiology – 3

Abstracts in Poster Discussion Round: S-322 – S-325

Presenters in Attendance: 9:30 am – 11:00 am

PR03-10

Poster Moderator: L. Sun, MD, *College of Physicians & Surgeons of Columbia University, New York City, New York*

S-322 CHANGES IN GENE EXPRESSION WITH EXPOSURE TO ISOFLURANE IN A MODEL OF DEVELOPING RAT BRAIN USING MICROARRAY ANALYSIS

L. Wise-Faberowski

Stanford University, Palo Alto, California

S-323 DELAYED EMERGENCE AFTER ANESTHESIA: IS IT POSTOPERATIVE HYSTERIA?

K. Chaudhuri, R. Johnston

Anesthesiology, Texas Tech University Health Sciences Center, Lubbock, Texas

S-324 KETAMINE NEUROTOXICITY IN A MECHANICALLY VENTILATED MOUSE MODEL OR NOT?

L. Wise-Faberowski

Anesthesiology, Stanford University, Palo Alto, California

S-325 METABOLIC MARKERS AND BRAIN INJURY IN A PIGLET MODEL OF CARDIOPULMONARY BYPASS AND CIRCULATORY ARREST

L. Wise-Faberowski

Anesthesiology, Stanford University, Palo Alto, California

Technology, Computing and Simulation – 5

Abstracts in Poster Discussion Round: S-386 – S-390

Presenters in Attendance: 9:30 am – 11:00 am

PR03-11

Poster Moderator: T. Krejcie, MD, *Northwestern Feinberg School of Medicine, Chicago, Illinois*

S-386 TRENDING, ACCURACY AND PRECISION OF NONINVASIVE HEMOGLOBIN MONITORING DURING HEMODILUTION

N. R. Marques, G. C. Kramer, M. Salter, R. B. Voigt, M. Kinsky
Resuscitation Research Lab - Anesthesiology, University of Texas Medical Branch, Galveston, Texas

S-387 EVALUATION OF A WEB-BASED PREOPERATIVE TOOL IN ASSESSMENT OF PERIOPERATIVE RISK

K. Marolen¹, J. M. Ehrenfeld^{1,2}

¹Anesthesiology, Vanderbilt University, Nashville, Tennessee;

²Biomedical Informatics, Vanderbilt University, Nashville, Tennessee

S-388 BEDSIDE RECRUITING AND PROCESSING OF DATA ON FACIAL APPEARANCE AND THE EASE OR DIFFICULTY OF INTUBATION

C. W. Connor^{1,2}, V. S. Tammineedi², J. Sparling³, R. Djang³, E. Oh⁴, A. S. Hub⁴, S. Segal⁵

¹Department of Anesthesiology, Boston Medical Center, Boston, Massachusetts ²Department of Biomedical Engineering, Boston University, Boston, Massachusetts; ³Boston University School of Medicine, Boston University, Boston, Massachusetts; ⁴Tufts University School of Medicine, Tufts University, Boston, Massachusetts; ⁵Department of Anesthesiology, Tufts University, Boston, Massachusetts

S-389 NON-INVASIVE CARDIAC OUTPUT MONITORING DURING BILATERAL TOTAL KNEE ARTHROPLASTY: A PILOT STUDY

E. Hanna, M. Hoyt, B. D. Sites

Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

S-390 THE FACTORS OF EFFECTS ON ENDTIDAL VOLATILE ANESTHETICS COMPARED WITH ETC®

N. Morioka, M. Ozaki

Tokyo Women's Medical University, Tokyo, Japan

Moderated Poster Discussion Rounds • Monday, May 6

Cardiovascular Anesthesiology – 5

Abstracts in Poster Discussion Round: S-89 – S-93

Presenters in Attendance: 11:30 am – 1:00 pm

PR03-12

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

S-89 ANTIOXIDANT CAPACITY AND S-100 BETA IN CEREBROSPINAL FLUIDS DURING AND AFTER THORACIC ENDOVASCULAR AORTIC REPAIR

K. Nandate, H. Olivar, M. Hallman, R. Ramaiah, A. Roche, A. Joffe, D. Sharma

Anesthesiology, Harborview Medical Center, University of Washington, Seattle, Washington

S-90 UNEXPECTED CARDIAC ARREST FOLLOWING POSTPERICARDIOTOMY SYNDROME

W. Thomas, V. Kumar, M. Castresana, S. Dwarakanath
Georgia Regents University, Augusta, Georgia

S-91 BARTH SYNDROME, A MITOCHONDRIAL DISEASE AFFECTING CARDIOLIPIN AND MEMBRANE CURVATURE

M. Ren, Y. Xu, M. Schlame

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

S-92 INCREASING ERROR OF NON-INVASIVE HEMOGLOBIN MEASUREMENT AFTER CARDIOPULMONARY BYPASS

M. Riess^{1,2}, D. S. Nabor², P. S. Pagel^{1,2}

¹Anesthesiology, Clement J. Zablocki VA Medical Center, Milwaukee, Wisconsin; ²Medical College of Wisconsin, Milwaukee, Wisconsin

S-93 PPAR GAMMA MEDIATES ENDOGENOUS AND EXOGENOUS CARDIOPROTECTION ASSOCIATED WITH RAT CHROMOSOME 6

R. ElOrbany³, D. S. Nabor², Q. Cheng², J. R. Kersten², D. F. Stowe^{1,2}, M. Riess^{1,2}

¹Anesthesiology, Clement J. Zablocki VA Medical Center, Milwaukee, Wisconsin; ²Anesthesiology, Medical College of Wisconsin, Milwaukee, Wisconsin; ³University of Chicago, Chicago, Illinois

Challenging Case Reports – 11

Abstracts in Poster Discussion Round: CC-149 – CC-152

Presenters in Attendance: 11:30 am – 1:00 pm

PR03-13

Poster Moderator: K. Candiotti, MD, *University of Miami School of Medicine, Miami, Florida*

CC-149 CHALLENGES IN TREATING PAIN IN A PATIENT WITH SYSTEMIC BOTULISM

S. Mousavi, A. Lebario, D. Thomas

Anesthesiology, SUNY Upstate University Hospital, Syracuse, New York

CC-150 MANAGEMENT OF CESAREAN SECTION DELIVERY AT 27 WEEKS IN A MORBIDLY OBESE (BMI=79) PREECLAMPTIC PATIENT WITH BIPAP AND CSE

T. Cooper-Shelton, Y. Yeap

Indiana University Department of Anesthesia, Indianapolis, Indiana

CC-151 DEVELOPMENT OF PHANTOM LIMB PAIN POST FEMORAL NERVE BLOCK: A CASE REPORT

S. Siddiqui, A. Sifonios

Anesthesiology, University of Medicine & Dentistry of New Jersey, New Jersey Medical School, Weehawken, New Jersey

CC-152 SELECTIVE ULNAR NERVE BLOCKADE FOR POSTOPERATIVE ANALGESIA USING A FOREARM PERINEURAL CATHETER (CASE REPORT)

N. S. Sandhu, J. Feinstein, W. Abramson

Anesthesiology, University of California San Diego, San Diego, California

Neuroscience in Anesthesiology and Perioperative Medicine – 5

Abstracts in Poster Discussion Round S-192 – S-196

Presenters in Attendance: 11:30 am – 1:00 pm

PR03-14

Poster Moderator: G. Hall, MB, BS, PhD, DSc, St. George's, University of London, London, United Kingdom

S-192 PROPOFOL-INDUCED APOPTOSIS OF NEURONS AND OLIGODENDROCYTES IN THE FETAL RHESUS MACAQUE BRAIN

A. M. Brambrink^{1,4}, C. Creeley², K. T. Dikranian³, G. A. Dissen⁴, J. W. Olney²

¹Anesthesiology and Perioperative Medicine, Oregon Health & Science University, Portland, Oregon; ²Departments of Psychiatry, Washington University School of Medicine, St. Louis, Missouri; ³Anatomy and Neurobiology, Washington University School of Medicine, St. Louis, Missouri; ⁴Oregon National Primate Research Center, Division of Neuroscience, Oregon Health & Science University, Portland, Oregon

S-193 TRANSFUSION PRACTICES IN MAJOR SPINE SURGERY: A SURVEY OF ACADEMIC ANESTHESIOLOGISTS

F. A. Wolf, J. Lieberman, M. Rollins

Anesthesia and Perioperative Care, UCSF, San Francisco, California

S-194 THE EFFECT OF PROPOFOL VERSUS ISOFLURANE ANESTHESIA ON HUMAN CSF MARKERS OF ALZHEIMER'S DISEASE- PRELIMINARY RESULTS OF A RANDOMIZED CONTROLLED TRIAL

M. Berger, D. McDonagh, J. Mathew, M. Newman, M. James

Anesthesiology, Duke University Medical Center, Durham, North Carolina

S-195 PUPILLOMETRY, CONSTRICTION VELOCITY AND IMAGING OF OPTIC NERVE SHEATH DIAMETER: POSITIVE RELATIONSHIP OF OPTIC NERVE SWELLING AND SLOWING OF CONSTRICTION VELOCITY - PRELIMINARY OBSERVATIONS OF 15 PTS.

K. Haller, A. Thagiris, H. L. Bennett

Anesthesiology, St. Luke's Roosevelt Hospitals, New York, New York

S-196 PRE-OPERATIVE INFLAMMATORY BURDEN IN THE ELDERLY INCREASES THE RISK OF DEVELOPING POSTOPERATIVE COGNITIVE DYSFUNCTION

M. Haile¹, R. Kline¹, A. Sacks², E. Pirraglia², S. Divedahr¹, D. Kline¹, M. de Leon²

¹Department of Anesthesiology, New York University School of Medicine, New York, New York; ²Dept of Psychiatry, New York University School of Medicine, New York, New York

Pain Mechanisms - 2

Abstracts in Poster Discussion Round: S-229 – S-232

Presenters in Attendance: 11:30 am – 1:00 pm

PR03-15

Poster Moderator: To be announced

S-229 A STUDY OF THE FUNCTIONAL CONNECTIVITY OF THE INSULA AND THE ANTERIOR CINGULATE GYRUS DURING PAIN PROCESSING

K. B. Taylor¹, S. Dua¹, J. W. Ibinson^{1,2}

¹Anesthesiology, University of Pittsburgh, Pittsburgh, Pennsylvania;

²Pittsburgh Center for Pain Research, University of Pittsburgh, Pittsburgh, Pennsylvania

S-230 FAILURE TO RESOLVE POST-OPERATIVE PAIN IN A RAT MODEL OF METABOLIC SYNDROME

P. Flood, M. Quincy, X. Feng, M. Maze

Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California

S-231 INTRATHECAL INJECTION OF LENTIVIRUS NAV1.8 SHRNA CAN ALLEVIATE BONE CANCER PAIN OF RAT

L. Xu, Y. Jiang, Y. Liu

Anesthesiology, PLA General Hospital, Beijing, China

S-232 INTRAOPERATIVE GRIMACE RESPONSES AND PATIENT CHARACTERISTICS: PATIENT FACTORS NOT ANESTHETIC LEVELS PREDICT GRIMACING/NON GRIMACING DURING HERNIA REPAIR SURGERY

S. Hall, P. Venegas, H. L. Bennett

Anesthesiology, St. Luke's Roosevelt Hospitals, New York, New York

Pain Medicine - 4

Abstracts in Poster Discussion Round: S-255 – S-259

Presenters in Attendance: 11:30 am – 1:00 pm

PR03-16

Poster Moderator: To be announced

S-255 INHIBITION OF MICRORNA 23B IN SPINAL CORD DIMINISHES COMPLETE FREUND'S ADJUVANT - INDUCED INFLAMMATORY PAIN IN RAT

P. Tan^{1,2}, C. Liu^{1,3}

¹Anesthesiology, E-DA Hospital/I-Shou University, Kaohsiung, Taiwan;

²Biotechnology, I-Shou University, Kaohsiung, Taiwan; ³Sciences of Biology, National Sun Yat-San University, Kaohsiung, Taiwan

S-256 UNILATERAL EPIDURAL BLOCK IN LOWER LIMB VASCULAR SURGERY PATIENTS - MYTH OR REALITY?

N. Eipe, A. S. Faris, Q. Tawfic, J. Penning

The Ottawa Hospital, Ottawa, Ontario, Canada

S-257 ANALGESIC EFFICACY EXTRA ORAL GLOSSOPHARYNGEAL NERVE BLOCK IN TREATMENT OF GLOSSOPHARYNGEAL NEURALGIA

P. Singh, M. Dehnan, V. Mohan, A. Trikha

Anaesthesia, Intensive Care and Pain, All India Institute of Medical Sciences, New Delhi, India

S-258 SUFENTANIL NANOTAB® PCA SYSTEM: RESULTS FROM TWO EASE OF USE STUDIES

M. A. Royal¹, T. Melson¹, D. L. Boyer², H. Minkowitz³, P. P. Palmer⁴

¹Anesthesiology, Helen Keller Hospital, Florence, Alabama;

²Anesthesiology, Beer Simon Williams & Assoc, Florence, Alabama;

³Anesthesiology, Memorial Hermann Memorial City Hospital Medical Center, Houston, Texas; ⁴Clinical, AcelRx Pharmaceuticals, Redwood City, California

S-259 DEXMEDETOMIDINE REDUCES DOSE REQUIREMENT OF THIOPENTONE SODIUM, PENTAZOCINE, REDUCES POSTOPERATIVE PAIN AND IMPROVES RECOVERY IN PATIENTS UNDERGOING LAPAROSCOPIC CHOLECYSTECTOMY UNDER GENERAL ANAESTHESIA

S. Khanduja, A. Ohri, M. Panwar

Anaesthesiology, Indira Gandhi Medical College, Shimla, India

Patient Safety - 8

Abstracts in Poster Discussion Round: S-303 – S-306

Presenters in Attendance: 11:30 am – 1:00 pm

PR03-17

Poster Moderator: To be announced

S-303 SUFENTANIL NANOTAB® PCA SYSTEM: SYSTEM DESIGN FEATURES TO IMPROVE SAFETY AND MITIGATE RISK

M. A. Royal, P. P. Palmer, B. N. Dasu

Clinical, AcelRx Pharmaceuticals, Redwood City, California

S-304 PROPOFOL DEEP SEDATION FOR ENDOSCOPIC ULTRASONOGRAPHY IN DIABETIC PATIENTS IN THAILAND

S. Amornyotin, S. Kongphlay

Anesthesiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

S-305 COMPLICATION RATE OF PROPOFOL DEEP SEDATION WITH OR WITHOUT TOPICAL PHARYNGEAL ANESTHESIA FOR ENDOSCOPIC ULTRASONOGRAPHY PROCEDURE IN ELDERLY PATIENTS

S. Amornyotin, S. Kongphlay

Anesthesiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

Moderated Poster Discussion Rounds • Monday, May 6

PR03-17, continued

S-306 PROPOFOL-BASED DEEP SEDATION FOR ENDOSCOPIC ULTRASONOGRAPHY IN SICK PATIENTS IN THAILAND

S. Amornyotin, *W. Chalayonnawin, S. Kongphlay*
Anesthesiology, Faculty of Medicine Siriraj Hospital, Mahidol
University, Bangkok, Thailand

Regional Anesthesia - 3

Abstracts in Poster Discussion Round: S-347 – S-351

Presenters in Attendance: 11:30 am – 1:00 pm

PR03-18

Poster Moderator: **N. Sandhu**, MD, MS, UCSD Medical Center,
VA Medical Center San Diego, San Diego, California

S-347 EPIDURAL ANALGESIA FOR MAJOR LIVER RESECTIONS IN THE UNITED STATES: USE AND CATHETER-RELATED COMPLICATIONS

G. Joshi, *G. Cheng, K. Khatri, E. B. Rosero*
Anesthesiology, University of Texas Southwestern Medical Center,
Dallas, Texas

S-348 ASSESS THE ROLE OF PARAVERTEBRAL BLOCK FOR PROVIDING POSTOPERATIVE ANALGESIA IN PERCUTANEOUS NEPHROLITHOTOMY (PCNL)

A. P. Borle, *A. Chhabra, R. Subramaniam*
Anesthesiology, All India Institute of Medical Sciences, New Delhi,
India

S-349 A COMPARISON OF TWO TECHNIQUES FOR ULTRASOUND-GUIDED SAPHENOUS NERVE BLOCKADE: BLOCKADE WITHIN VERSUS DISTAL TO THE ADDUCTOR CANAL IN THE DISTAL THIGH

S. J. Head, *G. Hackman, R. C. Leung, R. Seib, K. Rondi,
S. K. Schwarz*
St. Pauls Hospital Department of Anesthesia, University of British
Columbia, Vancouver, British Columbia, Canada

S-350 IMAGE PROCESSING TECHNIQUE MAY HELP MORE REALISTIC EVALUATION OF ULTRASOUND NEEDLE VISIBILITY

H. Hayashi
Anesthesia, Kansai Rosai Hospital, Amagasaki, Japan

S-351 ULTRASOUND GUIDED CONTINUOUS PARAVERTEBRAL BLOCK FOR UNILATERAL TRAUMATIC RIB FRACTURE

R. Sikka, *J. Hutchins, K. G. Belani, M. Birch*
Department of Anesthesia, University of Minnesota, Minneapolis,
Minnesota

Critical Care, Trauma and Resuscitation – 6

Abstracts in Poster Discussion Round: S-127 – S-131

Presenters in Attendance: 11:30 am – 1:00 pm

PR03-19

Poster Moderator: **S. Wahlander**, MD, Columbia University
Medical Center, New York City, New York

S-127 ENTERAL VS PARENTERAL GLUTAMINE IN CRITICALLY ILL PATIENTS IN ICU- A PROSPECTIVE RANDOMIZED STUDY

G. S. Tomar, *S. Chawla, S. Ganguly*
Department of Anesthesiology & Critical Care, St. Stephen's Hospital,
Gwalior, MP, India

S-128 ACTIVATION OF NLRP3 INFLAMMASOME IN ALVEOLAR MACROPHAGES CONTRIBUTES TO MECHANICAL STRETCH-INDUCED LUNG INFLAMMATION AND INJURY

G. Hu^{1,2}, *J. Wu¹, Z. Yan¹, D. Schwartz¹, C. Gu¹, A. B. Malik²*
¹Anesthesiology, University of Illinois at Chicago, Chicago, Illinois;
²Pharmacology, University of Illinois at Chicago, Chicago, Illinois

S-129 RESCUE TRANSESOPHAGEAL ECHOCARDIOGRAPHY BY ANESTHESIOLOGISTS IN A SURGICAL INTENSIVE CARE UNIT CHANGES POSTOPERATIVE MANAGEMENT OF NON-CARDIAC PATIENTS

S. Raman, *M. Griffie, B. Gmelch, J. Zimmerman, T. Holmberg,
G. Desjardins*
University of Utah, Salt Lake City, Utah

S-130 NO CHANGE IN PLATELET FUNCTIONALITY AFTER WARMING

G. Konig, *J. H. Waters*
Anesthesiology, University of Pittsburgh School of Medicine,
Pittsburgh, Pennsylvania

S-131 COAGULATION PROFILES USING THROMBOELASTOGRAPHY AFTER ANEURYSMAL SUBARACHNOID HEMORRHAGE

T. Christianson
University of Tennessee College of Medicine-Knoxville, Knoxville,
Tennessee

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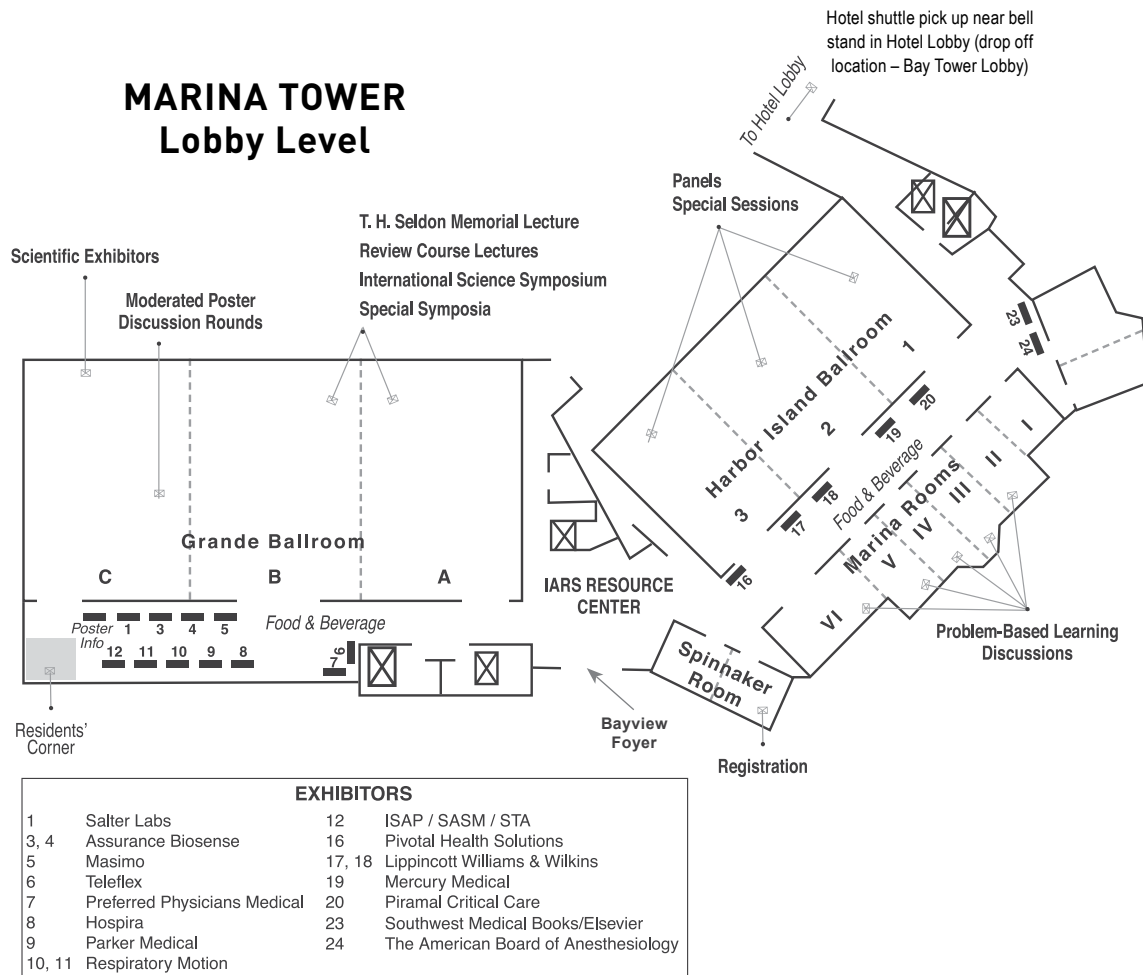
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Saturday, May 4 – Monday, May 6 • 7:00 am – 2:00 pm

MARINA TOWER Lobby Level



Tabletop Exhibit Information

Saturday, May 4 – Monday, May 6 • 7:00 am – 2:00 pm

SCIENTIFIC & EDUCATIONAL TABLETOP EXHIBITS

Hours:

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Sunday, May 5 8:00 am - 5:00 pm

Monday, May 6 8:00 am - 1:00 pm

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University of Oklahoma Health Sciences Center . . . SE-2

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Medical School. SE-4

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Medical School. SE-5

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Saturday, May 4 – Monday, May 6 • 7:00 am – 2:00 pm

SCIENTIFIC & EDUCATIONAL TABLETOP EXHIBITS

Northwestern University Feinberg School of Medicine SE-1

Chicago, Illinois

No Pain Labor N' Delivery: An Educational – Global Health Initiative to Transform Current Knowledge and Skills into Better Maternal and Neonatal Outcomes

This mission aims to decrease maternal and neonatal morbidity and mortality in China through physician training in management of neuraxial labor analgesia and patient education regarding its benefits. Thus far, the labor epidural analgesia rate has increased from 0% to 60% in 7 of 10 established centers while improving outcomes.

- Pamela Flood, MD, MS
- Ling Qun Hu, MD
- Jean-Pierre Ouanes, DO
- Lori Ann Suffredini, DO
- Cynthia Wong, MD

University of Oklahoma Health Sciences Center ... SE-2

Oklahoma City, Oklahoma

Opioid Dependent Patients on Treatment Presenting for Surgery: An Increasing Trend that Poses Pain Management Issues for Anesthesiologists

We present a 33-year-old G3P2-0-0-2, opioid dependent female with an intrauterine pregnancy at 40 weeks in need of a repeat C-section. The exhibit will review the evidence-based treatment plan for pain management in the pre, intra, and post-operative period, medications used at specific times, and their mechanism of action.

- Blake Christensen, DO
- Raghuvender Ganta, MD, FRCA
- Abhinava Madamangalam, MD
- Raj Tilak, MD, FRCA

OU and VA Medical Centers SE-3

Oklahoma City, Oklahoma

The Role of Complementary and Alternative Medicine (CAM) in Chronic Pain

The late 20th Century yielded a social transformation of medicine. Over 50% of Americans have used one form of CAM - acupuncture, nutritional supplementation, herbs, massage, yoga, chiropractic and homeopathy and the majority of these were used for persistent chronic pain. Different modalities of CAM therapy and their effectiveness compared to conventional treatment will be described.

- Blake Christensen, DO
- Raghuvender Ganta, MD, FRCA
- Abhinava Madamangalam, MD
- Raj Tilak, MD, FRCA

UMDNJ – Rutgers Robert Wood Johnson Medical School SE-4

New Brunswick, New Jersey

Minimally Invasive Extraction of Intracardiac Debris with the AngioVac System

AngioVac Cannula provide a minimally invasive alternative for removal of undesirable intravascular and intracardiac material such as clot, thrombus tumor, myxoma and vegetation while maintaining flow during extracorporeal circulation. We highlight issues that are critical for proper anesthetic management of such cases with visual aids provided by intraoperative TEE.

- Shaul Cohen, MD
- Adil Mohiuddin, MD
- Sameet Syed, MD

UMDNJ – Rutgers Robert Wood Johnson Medical School SE-5

New Brunswick, New Jersey

The Elusive Quadricuspid Aortic Valve

Case report emphasizing need for intraoperative TEE reexamination of culprit valves to ascertain pathological etiology for valvular dysfunction. We highlight the cryptic structural flaw with attention to architectural detail and associated pathophysiology with visual aids provided by TEE clips, which is imperative for proper diagnosis and surgical intervention.

- Shaul Cohen, MD
- Ali Razvi, MD
- Adil Mohiuddin, MD
- Sameet Syed, MD

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SOCIETY TABLETOP EXHIBITS

The American Board of Anesthesiology, Inc. 24 **866-999-7501 • www.theaba.org**

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International Society of Anaesthetic Pharmacology (ISAP). 12 **414-755-6296 • www.isaponline.org**

The International Society for Anaesthetic Pharmacology (ISAP) is a non-profit organization, with an international membership, dedicated to teaching and research about clinical pharmacology in anesthesia. Membership includes those interested in the development of devices that deliver and monitor effects from anesthetic drugs, anesthetic mechanisms of action, the influence of anesthetics on the progression of disease, the pharmacogenomics of personalized medicine as it pertains to anesthesia, and the impact of anesthetic drugs on vulnerable patient groups.

Society for Technology in Anesthesia (STA) 12 **414-389-8600 • www.stahq.org**

The Society for Technology in Anesthesia (STA) is an international organization of physicians, engineers, students and others with an interest in anesthesia-related technologies. The mission of STA is to improve the quality of patient care by innovation in the use of technology and its application. The Society promotes education and research, collaborates with local, national and international organizations, sponsors meetings and exhibitions, awards grants and recognizes achievement.

Society of Anesthesia and Sleep Medicine (SASM) . . . 12 **414-389-8608 • www.SASMHq.org**

The Society of Anesthesia and Sleep Medicine (SASM) has been founded to encourage exploration of the substantial common ground that exists between anesthesiology and sleep medicine and the anesthetic and sleep states.

The mission of SASM is to advance standards of care for clinical problems shared by anesthesiology and sleep medicine, including peri-operative management of sleep disordered breathing, and to promote interdisciplinary communication, education and research in matters common to anesthesia and sleep.

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Saturday, May 4 – Monday, May 6 • 7:00 am – 2:00 pm

TECHNICAL TABLETOP EXHIBITS

Assurance Biosense Tables 3, 4



860-616-1610 • www.assurancebio.com

Assurance Biosense provides advanced patient monitoring solutions with its specialty technology, offering clinicians easy to use, cost effective tools that improve patient safety and reduce false alarms. The sensor measures oxygen saturation centrally at the nasal ala. The unique vascular physiology of this site delivers a superior signal and enables the monitoring of a variety of additional critical respiratory parameters unavailable at other sites via traditional pulse oximetry.

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Lippincott Williams & Wilkins-WKH Tables 17, 18



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Masimo Table 5



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TECHNICAL TABLETOP EXHIBITS

Mercury Medical Table 19



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Visit Mercury Medical to learn about the first self-pressurizing laryngeal mask, eliminating the guesswork of laryngeal mask cuff inflation. Positive pressure ventilation pressurizes the mask cuff. This increase in cuff seal pressure occurs at the time you need it, during the upstroke of ventilation.

Parker Medical Table 9



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Piramal Critical Care Table 20

Piramal Critical Care

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Pivotal Health Solutions Table 16



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TECHNICAL TABLETOP EXHIBITS

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Respiratory Motion, Inc. Tables 10, 11



781-373-1636 • www.respiratorymotion.com

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Salter Labs Table 1



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Southwest Medical Books/Elsevier Table 23

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Teleflex Table 6



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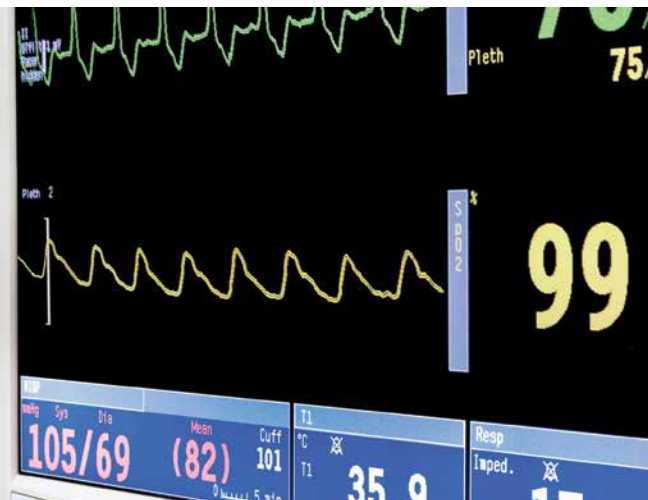


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