

Final Program

IARS 2014 Annual Meeting and International Science Symposium

Improving Health Through Discovery and Education

May 17 – May 20

Fairmont The Queen Elizabeth Hotel
Montréal, Canada



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IARS

International Anesthesia Research Society

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International Anesthesia Research Society

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May 17, 2014

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D.J. Wedel, MD
Rochester, MN

Bienvenue à Montréal!

Past Chair

D. Schwinn, MD
Iowa City, IA

The IARS 2014 Annual Meeting and International Science Symposium are together with the SOCCA 27th Annual Meeting and Critical Care Update for the first time here in beautiful Montréal! We have developed a dynamic program filled with opportunities to discuss cutting-edge topics in every specialty of anesthesiology, engage with world-renowned anesthesia educators, and network with colleagues. Over the next 4 days, we know you will find the increased learning opportunities as compelling and varied as the location with its distinctive neighborhoods and European charm.

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Richmond, VA

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D.C.H. Cheng, MD
London, Ontario, Canada

This year's program is packed with robust content, with a wide variety of symposia, lectures, panels, hands-on workshops, and problem-based learning discussions. Here are just a few of the highlights.

Secretary

M. Ozaki, MD, PhD
Shinjuku, Tokyo, Japan

- Dr. Angela Enright, Immediate Past President of the WFSA, will kick off the week's events with the T.H. Seldon Memorial Lecture at 8:00 am Saturday. For the past 10 years, Dr. Enright has dedicated herself to improving the education of anesthesiologists in emerging countries. She will address the question, *Global Challenges in Anesthesia: Are We Doing Enough?*

Member-At-Large

A. Evers, MD
St. Louis, MO

- Special focus on critical care (Saturday): SOCCA joins with IARS to offer sessions on Anesthesia Advanced Circulatory Life Support, Critical Illness Intraoperative Decisions in the OR, workshops covering Critical Care Ultrasound and ACLS Simulation, and a PBLD on a complex challenge involving spinal instrumentation.

BOARD OF TRUSTEES

E.N. Brown, MD, PhD
Boston, MA

- The International Science Symposium will focus on *Inflammation and its Perioperative Implications* (Sunday), moderated by Dr. Emery Brown.

K.A. Jones, MD
Birmingham, AL

- Symposia on Evidence-Based Decision-Making and Knowledge Translation (Saturday), Enhanced Recovery After Surgery (Sunday) and the Perioperative Surgical Home (Monday), with a special symposium for residents on preparing for your future anesthesiology careers (Saturday) will add to the educational focus.

C.G. Koch, MD, MS, MBA
Cleveland, OH

B. Orser, MD, PhD
Toronto, Ontario, Canada

- More than 510 abstracts will be presented during the meeting and compete for the Best of Meeting and Kosaka Awards. Residents will also vie for honors and bragging rights in the resident abstract competition.

J.G. Ramsay, MD
San Francisco, CA

Visit the Tabletop Exhibit Area for the latest advances in technology, equipment, pharmaceutical services, and medical publications.

S. Suresh, MD
Chicago, IL

Take time out to interact with your colleagues during the Attendee Reception on Saturday, from 5:00 pm to 6:00 pm, while enjoying some of the unique flavor of the city. With meeting days that end by 5:00 pm, you will find plenty of time to see the sights and savor the culinary delicacies which make Montréal famous.

C.P. Werner, MD
Mainz, Germany

We are confident you will find this time together meaningful and gratifying while discovering all Montréal has to offer.

EXECUTIVE DIRECTOR

T.A. Cooper
San Francisco, CA

Sincerely,

Denise J. Wedel, MD
Chair, IARS Board of Trustees



Welcome to the IARS 2014 Annual Meeting and the beautiful city of Montréal!

Join over 1,000 of the world's leading anesthesia educators and investigators for an invigorating program featuring over 20 Review Course Lectures, 24 Panels focused on cutting-edge topics in sub-specialty fields, 18 Problem-Based Learning Discussions with challenging case-based scenarios, 5 Interactive Ultrasound Workshops, 3 Education Symposia, a 2-day Resident Education Program and 3 days of Moderated Poster Discussions.

Featured Sessions Include ...

- **Saturday, May 17, 8:00 – 9:30 am** ■ **T.H. Seldon Memorial Lecture**
Global Challenges in Anesthesia: Are We Doing Enough?
- **Saturday, May 17, 1:00 – 5:15 pm and Sunday, May 18, 7:30 – 10:00 am** ■ **Resident Program**
Changing Healthcare and its Demands: Prepare Yourself for the Future
- **Sunday, May 18, 8:00 – 11:00 am** ■ **International Science Symposium**
Inflammation and its Perioperative Implications

IARS Education Symposia

- **Saturday, May 17, 1:00 – 4:00 pm**
Evidence-Based Decision-Making, Health Technology Assessment, and Knowledge Translation for Anesthesia and Perioperative Medicine (EBDM, HTA & KT)
- **Sunday, May 18, 1:30 – 4:30 pm**
Enhanced Surgical Recovery Program: The Role of the Anesthesiologist
- **Monday, May 19, 7:00 – 10:00 am**
The Perioperative Surgical Home: How Can It Make the Case So Everyone Wins?

Montréal by the Numbers

2 Number ranked in size among French-speaking cities (Paris is #1)	18 Number of miles of shops, restaurants and attractions that make up Montréal's Underground City	24 Number of Stanley Cups won by the Montréal Canadians – best record in the NHL	1 Number ranked for largest inland port on earth for the Port of Montréal	9 Number of bridges that surround Montréal
1969 Year John Lennon and Yoko Ono staged their second week-long bed-in at the Fairmont The Queen Elizabeth Hotel in Suite 1742	15 Number ranked in city size in North America	16 Number ranked among the world's most livable cities by <i>Monocle Magazine</i> in 2008	85 Percentage of world's maple syrup produced in Montréal's province of Québec	11 Number of universities
1976 Year Olympic Games took place in Montréal – the Fairmont The Queen Elizabeth Hotel was the headquarters	4,000 Number of years ago that First Nations native people lived in Montréal	2006 Year named a UNESCO City of Design along with Berlin and Buenos Aires	1876 Year the 500-acre Mount Royal Park, designed by Frederick Law Olmstead, was created	373 Approximate number of miles of bike paths
4,500 Number of animals from 250 different species and 500 plant species that call Biodôme Montréal home	1 Number ranked for largest church in Canada for St. Joseph's Oratory	19 Number of boroughs that form the city	2 Number ranked for most restaurants per capita in North America (New York City is #1)	10 Number of rollercoasters at Montréal's Le Ronde Amusement Park
	3,000 Approximate number of musicians who participate in the Festival International de Jazz de Montréal each summer	12 Number of Titanic victims buried in Montréal's cemeteries	68 Number of stations in the Montréal subway	80 Number of languages spoken in Montréal
				1933 Year that Marché Atwater, one of Montréal's oldest markets, opened

General Information

Location

IARS 2014 Annual Meeting Headquarters Hotel

The IARS 2014 Annual Meeting and International Science Symposium education sessions and tabletop exhibits will be conveniently located at the Fairmont The Queen Elizabeth Hotel.

Fairmont The Queen Elizabeth Hotel is celebrated internationally for its world-class accommodations. At the center of Montréal's vibrant cultural and commercial district sits the city's grandest and most gracious hotel – Fairmont The Queen Elizabeth Hotel. Recently recognized for its sustainability programs, the hotel reflects the distinct elegance and charm of Montréal and offers direct access to the train station and the extensive underground city of thousands of boutiques, restaurants and cafés.

Fairmont The Queen Elizabeth Hotel

900 Rene Levesque Blvd. W
Montréal, Québec, Canada
866-540-4483

Registration

Registration Area

Your registration materials will be available for pick up at the Registration Desk (Foyer, Mezzanine).

Registration is available during the following hours:

Friday, May 16	6:00 am – 5:00 pm
Saturday, May 17	6:00 am – 5:00 pm
Sunday, May 18	6:00 am – 5:00 pm
Monday, May 19	6:00 am – 5:00 pm
Tuesday, May 20	6:30 am – 11:30 am

The Annual Meeting registration fee includes access to the T.H. Seldon Memorial Lecture, International Science Symposium, Review Course Lectures, Panels, Moderated Poster Discussion Rounds, and Tabletop Exhibits. Problem-Based Learning Discussions (PBLDs), Case Reports 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 2014 Final Program and an online (www.iars.org) copy of the Abstract Supplement, and Review Course Lecture Book. These documents will also be posted to the IARS website.

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

Tabletop Exhibits Area

The Tabletop Exhibits are located in the Foyer, Convention Floor, Fairmont The Queen Elizabeth Hotel. In addition, please join us for the *Attendee Reception* on Saturday, May 17, from 5:00 to 6:00 pm.

Tabletop Exhibit hours:

Saturday, May 17	7:00 am – 2:00 pm
<i>Attendee Reception</i>	5:00 pm – 6:00 pm
Sunday, May 18	6:00 am – 2:00 pm
Monday, May 19	6:00 am – 2:00 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 Foyer, Mezzanine Floor near the Registration Desk.

Internet Availability

Complimentary wireless internet is available in the conference and exhibit area, all meeting rooms, and attendee guestrooms within the hotel. Open your internet browser and choose the network labeled "**Fairmont Meeting.**" When prompted for an access code, enter "**IARS.**" Please no streaming or video downloads.

Mobile App

Download the interactive IARS 2014 Annual Meeting mobile app, **IARS 2014**, available for iPhone, iPad, Android, and HTML5 for Blackberry. Remember to turn off your mobile data and use the complimentary hotel WiFi to download the app to avoid roaming charges (see directions for using the free WiFi above). Your **username** for the app is the email with which you registered for the Annual Meeting. The **password** for all users is: **iars2014**. With **IARS 2014**, you can view the complete event schedule, explore all sessions, and get detailed presenter information. Keep informed of the most popular sessions and events by accessing the app's Activity Feed, which highlights useful comments, photos, ratings and more. Receive announcements and obtain the most up-to-date event information. Expand your professional network and make the most of your Annual Meeting experience! Please contact iarsapp@iars.org with any questions.

Twitter

Share your experiences and thoughts during the Annual Meeting by tweeting and using the hashtag **#IARS14**. You can also follow the official IARS Annual Meeting Twitter feed (**@IARS14**) at <http://twitter.com/IARS14>.

General Information

Online CME

Online CME will be available one week following the Annual Meeting. A link to access the Annual Meeting CME will be emailed to all attendees.

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 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 2014 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 Fairmont the Queen Elizabeth Hotel are located in the lobby. The Montreal Bonaventure Train Station is located underneath the hotel and connects attendees to the extensive underground city made up of a 19-mile network of indoor paths linking boutiques, restaurants and cafés, hotels, office towers and attractions!

Les Voyageurs – Bar Lounge

Open for lunch and dinner.

Weekdays: 11:30 am - 1:00 am

Saturday: 4:00 pm - 1:00 am

Sunday: 4:00 pm - 12:00 am

Le Montréalais Bistrot-Bar Restaurant

Open for breakfast, lunch and dinner.

Weekdays: 6:30 am - 10:00 pm

Saturday: 7:00 am - 11:00 pm

IARS 2014 Annual Meeting Program Committee

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Birmingham, Alabama

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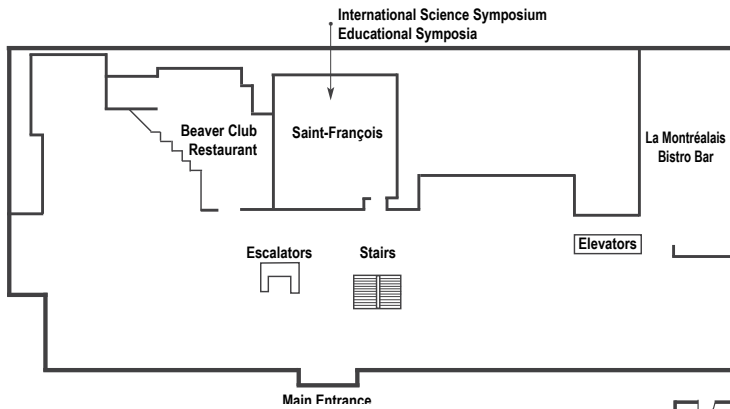
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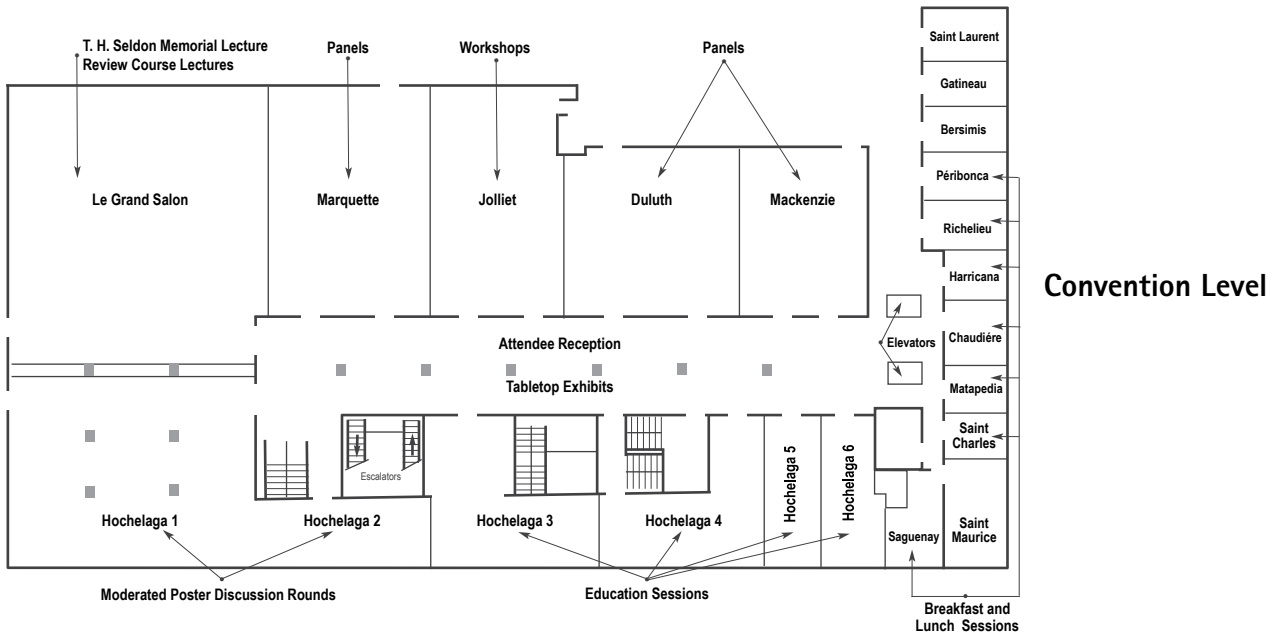
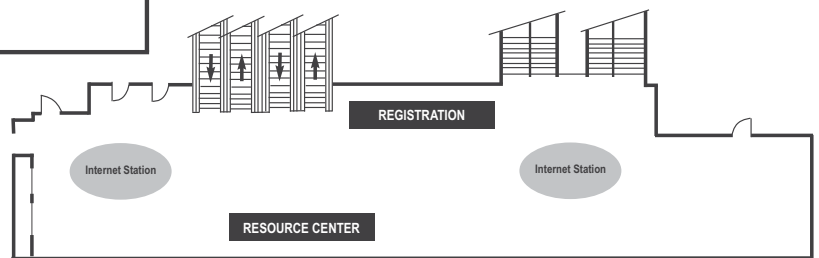
Christian P. Werner, MD
Mainz, Germany

IARS 2014 Annual Meeting Floor Plans Fairmont the Queen Elizabeth Hotel

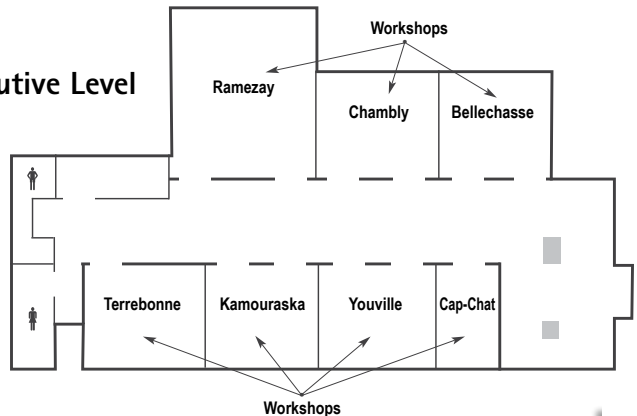
Grand Hall Main Lobby



Mezzanine Level



Executive Level



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 2014 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 2014 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; and
- 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 25 *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. Online CME will be available one week following the Annual Meeting. A link to access the Annual Meeting CME will be emailed to all attendees.

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®), enter your ABA ID, as part of your profile in 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 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.

8:00 am – 9:30 am

Opening General Session

T.H. Seldon Memorial Lecture

Global Challenges in Anesthesia: Are We Doing Enough?



Angela Enright, OC, MB, FRCPC

*Clinical Professor of Anesthesia,
University of British Columbia
Anesthesiologist, Vancouver Island Health Authority
Victoria, British Columbia, Canada*

- Dr. Enright served as the CAS President in 1994-95.
- In 2000, she was appointed Chair of the Education Committee of the World Federation of Societies of Anaesthesiologists (WFSA).
- In 2008, she was elected as WFSA President for a four-year term.

Well-known both nationally and internationally, Dr. Enright has been widely recognized for her significant humanitarian efforts and contributions to the profession. She received the Officer of the Order of Canada in 2010 and was awarded the Queen Elizabeth II Diamond Jubilee Medal in 2012.

Dr. Angela Enright was given the honor of delivering the inaugural Dr. Angela Enright Lecture at the 2012 CAS Annual Meeting in Quebec City. In 2008, Dr. Enright became heavily involved with the global pulse oximetry project of the World Health Organization in developing educational and training materials and facilitating the formation of Lifebox to purchase and distribute oximeters.

Through CAS, Dr. Enright has also been very active in CAS IEF, including working with the American Society of Anesthesiologists and the National University of Rwanda to develop a training program in anesthesia for physicians.

Dr. Enright has a particular interest in education in low-resource areas and chaired the board of the CAS International Educational Foundation (CAS IEF) for many years. During that time, she started a residency training program in Rwanda which is now just entering its seventh year.

In 2009, Dr. Enright was awarded the Gold Medal of the Irish College of Anaesthetists, only the second time this has been awarded. In 2012, she was admitted to Honorary Membership of the Association of Anaesthetists of Great Britain and Ireland for Distinguished Services to the Science and Art of Anaesthesia.

Also, Dr. Enright was the recipient of the American Society of Anesthesiologists' (ASA) 2012 Nicholas M Greene, MD Award for Outstanding Humanitarian Contribution. This award recognizes Dr. Enright's commitment to humanitarian aid, as well as her contributions to anesthesia and training. The Committee on Global Humanitarian Outreach also recognized Dr. Enright's "fine work" and the "unique sacrifice" she has made in serving others in the international community.

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

On Saturday, May 17, Focus on Critical Care at the IARS!

<p>6:00 am – 5:00 pm Registration</p> <p>8:00 am – 8:30 am Opening General Session Welcome and Opening Remarks</p> <p>8:30 am – 9:30 am T.H. Seldon Memorial Lecture <i>Global Challenges in Anesthesia: Are We Doing Enough?</i> Angela Enright, OC, MB, FRCPC</p> <p>10:00 am – 5:30 pm Concurrent Sessions</p> <ul style="list-style-type: none"> • Review Course Lectures • Panels • Hands-On Workshops • Moderated Poster Discussion Rounds 	<p>12:00 pm – 1:00 pm Lunch Sessions</p> <ul style="list-style-type: none"> • <i>Anesthesia & Analgesia</i> Case Reports • Problem-Based Learning Discussions (PBLD's) <p>1:00 pm – 3:00 pm Resident Panel <i>Changing Healthcare and Its Demands: Prepare Yourself for the Future</i></p> <p>1:00 pm – 4:00 pm Symposium <i>Evidence-Based Decision-Making, Health Technology Assessment & Knowledge Translation for Anesthesia and Perioperative Medicine (EBDM, HTA & KT)</i></p> <p>3:15 pm – 5:15 pm Resident Regional Ultrasound Workshop</p>
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7:00 am – 2:00 pm Tabletop Exhibits

REVIEW COURSE LECTURES



RCL-01 • 10:00 am – 10:55 am ANESTHESIA ADVANCED CIRCULATORY LIFE SUPPORT

Presenter: 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*

Learner Objectives: After participating in this lecture, the learner will be able to: (1) Recognize the clinical features and causes of an intraoperative cardiac arrest; (2) Compare the differences between the management of an intraoperative arrest and the management of an out of hospital arrest; and (3) Learn how to treat a patient who's clinical condition is progressing to shock.

RCL-02 • 11:00 am – 11:55 am

TEN (10) THINGS YOU ALWAYS WANTED TO KNOW ABOUT PEDIATRIC ANESTHESIA

Presenter: 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*

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

Learner Objectives: After participating in this lecture, the learner will be able to: (1) Describe the ten common myths about pediatric anesthesia; (2) Navigate through the quagmire of myths that exist in pediatric anesthesia; and (3) Identify an evidence-based approach to solving myths.

RCL-03 • 1:00 pm – 1:55 pm

THERAPEUTIC POTENTIAL OF MESENCHYMAL STROMAL CELL THERAPY FOR ACUTE RESPIRATORY DISTRESS SYNDROME

Presenter: John G. Laffey, MD, *Chief, Department of Anesthesia, Scientist, Keenan Research Centre; St. Michael's Hospital, Professor, Anesthesia and Physiology, University of Toronto, Toronto, Ontario, Canada*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the different types of cell based therapies (2) Determine the rationale for considering mesenchymal stromal cells to be particularly promising as a therapy for ARDS; and (3) Critically appraise the pitfalls and hurdles that must be overcome to translate mesenchymal stromal cells to a clinical therapy for ARDS.

RCL-04 • 2:00 pm – 2:55 pm

VALUE BASED CARE: THE ROLE OF THE ANESTHESIOLOGIST

Presenter: Lee A. Fleisher, MD, *Robert D. Dripps Professor and Chair of Anesthesiology and Critical Care, Professor of Medicine, Perelman School of Medicine of the University of Pennsylvania, Philadelphia, Pennsylvania, Past President, Association of University Anesthesiologists*

Learner Objectives: After participating in this lecture, the learner will be able to: (1) Describe payment and quality measures under the affordable care act; (2) Discuss how the anesthesiologist can impact the value equation; and (3) Identify how value is measured.

RCL-05 • 3:00 pm – 3:55 pm

BEATING JOE CAMEL: HOW ADDRESSING TOBACCO USE HELPS YOUR PATIENTS AND YOUR PRACTICE

Presenter: David O. Warner, MD, *Director, Research Management Programs, Mayo Clinic Center for Clinical and Translational Science (CCaTS), Professor of Anesthesiology, Mayo Clinic College of Medicine, Rochester, Minnesota*

Learner Objectives: After participating in this lecture the learner will be able to: (1) Describe the benefits of abstinence from cigarette smoking to surgical outcomes; (2) Debunk putative barriers to providing tobacco use interventions to surgical patients; (3) Incorporate simple, brief, effective tobacco use interventions into your practice that will: a) add additional reimbursement from payers, b) meet the requirements of a new PQRS quality measure, and 3) meet the requirements of a Part 4 Maintenance of Certification in Anesthesiology (MOCA) activity.

RCL-06 • 4:00 pm – 4:55 pm

CONTROVERSIES IN PATIENT SAFETY: MAKING PERIOPERATIVE CARE SAFER IN 2014

Presenter: Avery Tung, MD, *Professor Quality Chief for Anesthesia, Department of Anesthesia and Critical Care, University of Chicago, Chicago, Illinois*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the history and current effectiveness of current hospital and perioperative quality programs; and (2) Explore and discuss future strategies for improving perioperative care.

PANELS



P-01 • 10:00 am – 11:30 am

APSF SAFETY PANEL – POSITIONING COMPLICATIONS: THE “LITTLE PROBLEM” THAT KEEPS GETTING BIGGER!

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

Panelists:

■ **Beach Chair Position and CNS Injury**

- Summary of case reports
- Review of head-up hemodynamics: Is there a cerebral siphon effect?
- Early lessons from current investigations

Charles W. Hogue, MD, *Professor, Anesthesiology and Critical Care Medicine, Chief, Division of Adult Anesthesia, The Johns Hopkins University School of Medicine, The Johns Hopkins Hospital, Baltimore, Maryland*

■ **Extremity Nerve Injuries**

- Ulnar neuropathy: Still #1!
 - Causes and prevention
- Risky positions for the brachial plexus, including robotic thyroid surgery
- What precautions can protect nerves of the lower extremities

Robert C. Morell, MD, *APSF Newsletter Co-Editor, Anesthesiologist, Private Practice, Niceville, Florida*

■ **Complications of Prone Position: POVL and More**

- Issues of informed consent
- Prone and head down physiology
- POVL Registry: What have we learned

Lorri A. Lee, MD, *Professor of Anesthesiology and Neurological Surgery, Chief, Division of Neurosurgical Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Be aware of current epidemiology of nerve and CNS injury; (2) Recognize the risks associated with beach chair position; (3) Describe peripheral nerves most at risk during general anesthesia; (4) Describe the value of the POVL registry; and (5) Identify needs of future research questions.

PANELS – continued

RESIDENT PANEL • 1:00 pm – 3:00 pm

CHANGING HEALTHCARE AND ITS DEMANDS: PREPARE YOURSELF FOR THE FUTURE

Moderator: 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

Presenters:

■ Academic Anesthesia – Can You Make the Cut?

David O. Warner, MD, Director, Research Management Programs, Mayo Clinic Center for Clinical and Translational Science (CCaTS), Professor of Anesthesiology, Mayo Clinic College of Medicine, Rochester, Minnesota

■ Fellowship Training – Pride or Prejudice

James P. Rathmell, MD, Executive Vice Chair and 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

■ Opportunities in Private Practice in Anesthesia: Does This Still Exist?

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

■ The Ten Most Difficult Questions from OpenAnesthesia Explained

Edward C. Nemergut, MD, Associate Professor of Anesthesiology and Neurological Surgery, Program Director, Department of Anesthesiology, University of Virginia, Charlottesville, Virginia; Editor-in-Chief, OpenAnesthesia

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify career paths in Academic Anesthesia, (2) Discuss Fellowship Training opportunities; (3) Discuss opportunities in private practice; and (4) Learn the most difficult anesthesia questions from the OpenAnesthesia education portal.



P-02 • 2:30 pm – 4:00 pm

FROM THE ICU TO THE OR: CRITICAL ILLNESS INTRAOPERATIVE DECISIONS IN THE OR

Moderator: Neal H. Cohen, MD, MPH, MS, Professor, Department of Anesthesia and Perioperative Care and Interim Vice Dean, Academic Affairs, UCSF School of Medicine, San Francisco, California

Panelists:

■ Management Techniques for Mechanical Ventilatory Support in a Patient in Ardsnet Protocol with Deteriorating Oxygenation

Avery Tung, MD, Professor Quality Chief for Anesthesia, Department of Anesthesia and Critical Care, University of Chicago, Chicago, Illinois

■ Modification of Vasoactive Therapy Hypotensive Despite Phenylephrine Infusion

Daniel R. Brown, MD, PhD, FCCM, Associate Professor of Anesthesiology, Chair, Division of Critical Care Medicine, Department of Anesthesiology, Mayo Clinic, Rochester, Minnesota

■ Patient Advanced Directives Request No Further Resuscitative Efforts in the ICU – What Now?

Brenda G. Fahy, MD, MCCM, Professor of Anesthesiology, Department of Anesthesiology in the College of Medicine and Division Chief, Critical Care Medicine, University of Florida, Gainesville, Florida, President, Society of Critical Care Anesthesiologists

Learner Objectives: After participating in this activity, the learner will be able to: (1) Implement strategies to manage the critically ill patient during the transitions of care between the operating room and the ICU; (2) Identify the most appropriate ventilatory strategies for the patient with severe respiratory failure; (3) Develop an algorithm for addressing persistent hemodynamic instability on a critically ill patient; and (4) Address conflicting goals of care in a critically ill patient requiring surgical intervention and aggressive resuscitation.



P-03 • 4:00 pm – 5:30 pm

FROM HEALTH POLICY TO RESEARCH THAT INFLUENCES ADOPTION AND CARE

Moderator: Lee A. Fleisher, MD

Panelists:

■ **The Perioperative Surgical Home in The Context of Policy Debate**

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

■ **The Role of ICU Research In Shaping ICU Policy**

Hannah Wunsch, MD, *Assistant Professor of Anesthesiology, Department of Anesthesiology, Division of Critical Care Anesthesiology, Columbia University Medical Center, New York, New York*

■ **How Understanding Policy Can Influence a Health Services Research Career**

Lee A. Fleisher, MD, *Robert D. Dripps Professor and Chair of Anesthesiology and Critical Care, Professor of Medicine, Perelman School of Medicine of the University of Pennsylvania, Philadelphia, Pennsylvania, Past President, Association of University Anesthesiologists*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify policy decisions that suggest questions; (2) Discuss (design) studies which policy makers might adopt; and (3) See where international comparisons can define areas in which policy should change.

White Papers Open June 2014 for the IARS 2015 Annual Meeting! Submit Your Session Proposal for a Chance to Present in Hawaii!

IARS will be accepting proposals for Panels, Problem-Based Learning Discussion (PBLD's) sessions, and Workshops for possible inclusion in the IARS 2015 Annual Meeting and International Science Symposium in Honolulu, Hawaii.

Instructions for submitting a white paper will be available on the IARS website following the IARS 2014 Annual Meeting. Check back and make sure you don't miss this great opportunity!

WORKSHOPS



W-01 • 10:00 am – 2:00 pm

SOCCA CRITICAL CARE ULTRASOUND WORKSHOP

Workshop Leaders:

Steven G. Venticinque, MD, *Professor of Clinical Anesthesiology and Surgery, Cardiac Anesthesia and Critical Care Medicine Faculty, University of Texas Health Science Center, San Antonio, Texas*

Antonio Hernandez, MD, *Associate Professor of Clinical Anesthesiology, Cardiac Anesthesia and Critical Care Medicine Faculty, Vanderbilt University Medical Center, Nashville, Tennessee*

Workshop Presenters:

Sean Kiley, MD, *Assistant Professor of Anesthesiology, Department of Anesthesiology, Division of Critical Care Medicine, University of Florida's College of Medicine, Gainesville, Florida*

Joseph Meltzer, MD, *UCLA Department of Anesthesiology, Ronald Reagan UCLA Medical Center, Los Angeles, California*

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

Peter von Homeyer, MD, *Assistant Professor of Anesthesiology, University of Washington School of Medicine, Department of Anesthesiology, Seattle, Washington*

The Society of Critical Care Anesthesiologists (SOCCA) will be conducting a four-hour critical care ultrasound workshop utilizing focused lectures, hands-on training with live models, simulators, and state-of-the-art ultrasound equipment. This course is designed to teach the participant the fundamentals of bedside critical care ultrasonography including: basic surface ultrasound views of the heart, lungs, and pleural space using views outlined in the Focused Assessed Transthoracic Echo (FATE) exam. The immediate goal of the workshop is for the participants to be able to utilize bedside surface ultrasonography as a diagnostic tool for the evaluation of patients with hemodynamic instability and/or respiratory failure in the perioperative setting. The use of diagnostic ultrasound for assessing A-ACLS related conditions will also be emphasized.

Learner Objectives: After participating in this activity, the learner will be able to: 1) Describe and demonstrate basic surface ultrasound views of the heart, lungs, and pleural space; 2) Discuss and demonstrate the use of transthoracic ultrasound in pleural and lung assessment, including pleural effusions and pneumothorax; 3) Discuss and demonstrate a basic ultrasound assessment of ventricular volume, the pericardial space, and intravascular volume; 4) Describe and demonstrate the use of ultrasonography for the evaluation of a patient hemodynamic instability and Anesthesia-ACLS-related conditions.

WORKSHOPS – continued



W-02 • 2:15 pm – 5:00 pm

**SOCCA – PERIOPERATIVE ACLS
SIMULATION WORKSHOP**

Workshop Leader: Vivek 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

Workshop Presenters:

Carlee A. Clark MD, Assistant Professor, Department of Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina

Larry C. Field MD, Associate Professor, Chief, Division of Critical Care, Department of Anesthesia & Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina

William R. Hand, MD, Assistant Professor, Department of Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina

Joseph Meltzer, MD, UCLA Department of Anesthesiology, Ronald Reagan UCLA Medical Center, Los Angeles, California

Mark E. Nunnally, MD, FCCM, Associate Professor, Department of Anesthesiology & Critical Care, University of Chicago, Chicago, Illinois

Annette Rebel, MD, Assistant Professor of Anesthesiology, University of Kentucky College of Medicine, Department of Anesthesiology, UK Chandler Medical Center, Lexington, Kentucky

This simulation workshop will focus on Perioperative (Anesthesia-Centric) ACLS, which addresses content related to perioperative urgencies: emergencies of cardiac, pulmonary, neurologic, metabolic/endocrine, and toxin origin. The workshop will begin with a 45-minute didactic and Q&A session. The simulation sessions will follow with each scenario being 15 minutes long with a 25- to 30-minute debrief afterward that will take into account the workshop objectives. A 5-minute break will be given between each station. There will be 4 scenarios stations per workshop with each station covering a different perioperative emergency. There will be a team leader and a first responder at each station. The other participants will fill scripted roles to which they will be introduced (nurse, surgeon, tech, etc.) and one participant will play the observer role in order to give feedback to the team (along with the facilitator).

3:15 pm – 5:15 pm

RESIDENT REGIONAL ULTRASOUND GUIDED WORKSHOP

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

Workshop Presenters:

Juan Francisco Asenjo, MD, Montréal General Hospital, McGill University Health Centre, Montréal (Quebec) Canada

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

Andrew D. Rosenberg, MD, Professor of Anesthesiology and Dorothy Reaves Spatz MD Chair of the Department of Anesthesiology, NYU School of Medicine, New York, New York

Learn from the experts the essential techniques for practicing regional ultrasound at this special residents-only workshop.

PROBLEM-BASED

LEARNING DISCUSSIONS – 12:00 – 1:00 pm



PBLD-SAT-01

NERVE INJURIES: MECHANISMS AND LIABILITIES

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

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the ethical and logical basis for “informed consent” in surgery: (a) Is a SEPARATE (written) anesthesia consent form necessary for our care?; (2) Explain why the ulnar nerve is the most commonly cited peripheral nerve injury in major medical-legal tort cases; (3) Know the best ways to protect the patient while positioning the arms in surgery, and how to document that care in the medical record; (4) Become familiar with similarities and differences between ulnar and femoral nerve injuries; (5) Identify advantages and limitations of ultrasound for placement of femoral nerve blocks; (6) Know the risks of direct needle penetration to a peripheral nerve during placement of a regional block: (a) Recognize this intrinsic risk to the procedure; and (7) Appreciate the proper steps to implement once notified of a patient with a suspected nerve injury after surgery.



PBLD-SAT-02

A COMPLEX CHALLENGE: SPINAL INSTRUMENTATION REQUIRING AGGRESSIVE RESUSCITATION TECHNIQUES AND MULTIMODAL ANALGESIA

Moderator: Elizabeth Brady Mahanna, MD, *Assistant Professor of Anesthesiology, Divisions of Critical Care Medicine and Neuroanesthesia, University of Florida, Gainesville, Florida*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe airway management techniques in a patient with rheumatoid arthritis; (2) Discuss intraoperative multimodal analgesia options in a chronic pain patient; (3) Identify pros and cons of 1:1:1 transfusion practice versus point-of-care and factor concentrate in massive transfusion; (1) Comprehend how to interpret viscoelastic thromboelastograms.



PBLD-SAT-04

MANAGEMENT OF NEUROLOGIC COMPLICATIONS

Moderators:

James R. Hebl, MD, *Professor, Anesthesiology, Mayo Clinic, Rochester, Minnesota*

Joseph M. Neal, MD, *Anesthesiology Faculty, Virginia Mason Medical Center, Seattle, Washington*

Learner Objectives: After participating in this activity, the learner will be able to (1) Recognize those risk factors that may predispose patients to neurologic injury; (2) Select tests that may best aid in diagnosis or prognostication; (3) Plan treatment interventions that may improve outcome after injury.



PBLD-SAT-03

OPEN HERNIA REPAIR: GENERAL ANESTHESIA, SPINAL ANESTHESIA OR LOCAL ANESTHESIA? A MULTI-MEDIA LEARNING DISCUSSION INCLUDING SIMULATION TRAINING

Moderator: Thomas M. Hemmerling, MD, DEAA, *Associate Professor, Department of Anesthesia, McGill University, MUHC, Institute of Biomedical engineering, University de Montreal, Director, ITAG Laboratory, Associate Director, Arnold and Blema Steinberg Medical Simulation Centre, Montreal General Hospital, Montreal, Quebec, Canada*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the surgical technique; (2) Learn the advantages and disadvantages of several anesthetic techniques; and (3) Experience several local techniques and optimal perioperative management.

A&A CASE REPORTS

Anesthesia & Analgesia Case Reports is the only journal dedicated to patient cases in all areas of anesthesiology. This online-only journal contains patient cases that highlight important teaching points or scientific observations in disciplines related to anesthesiology: perioperative medicine, critical care, and pain management.

Each *A&A Case Reports* Lunch Session provides the opportunity for attendees to examine with the authors patient cases, published in the Journal, and engage in expert discussion following each presentation.

A&A Case Reports Session Schedule

Saturday, May 17 ■ 12:00 pm – 1:00 pm

Sunday, May 18 ■ 12:30 pm – 1:30 pm

Monday, May 19 ■ 12:30 pm – 1:30 pm

1:00 pm – 4:00 pm

Evidence-Based Decision-Making, Health Technology Assessment, and Knowledge Translation for Anesthesia and Perioperative Medicine (EBDM, HTA & KT)

Moderator

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

Presenters

The Perils of Bias, and Evidence Reversals in Decision-Making

Janet Martin, PharmD, MSc (HTA), PhD,
Director, MEDICI Center and Assistant Professor, Department of Anesthesia and Perioperative Medicine, Western University, London, Ontario, Canada

Why Do We Need Health Technology Assessment?

Maurice McGregor, OC, OQ, MB BCh, FRCP(London), FRCPC, FACC, *Professor Emeritus and Founding Chair, HTA Unit McGill University Health Centre Institution/Organization: McGill University, Montréal, Quebec, Canada*

Tools and Techniques for Getting Evidence into Practice

Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS, CCPE,
Distinguished University Professor and Chair; Medical Director, MEDICI Centre, Department of Anesthesia and Perioperative Medicine, Western University, London, Ontario, Canada

Panel Discussion:

Forefront of Evidence-Based Decision-Making and Knowledge Translation in Perioperative Medicine Using Interactive Case Studies

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) Use tools and techniques for individual patient-level decision-making and for health policy-making; (3) Navigate decision-making when existing evidence appears to be contradictory using hot topics of relevance to anesthesia and perioperative medicine (i.e. specific topics will depend on what is "hot" in spring 2014, but may include TAVI, OPCAB surgery, EPO preop, BIS/neuro-monitoring, Antifibrinolytics, pre-operative testing, colloids vs. crystalloids, and a variety of examples from minimally-invasive surgery); and (4) Identify specific ways that anesthesiologists can contribute to the growing field of health technology assessment and knowledge translation (HTA & KT).

Resident Symposium

Saturday, May 17, 1:00 – 3:00 pm

Panel: *Changing Healthcare and its Demands: Prepare Yourself for the Future*

Moderator: 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*

Presenters

Academic Anesthesia – Can You Make the Cut?

David O. Warner, MD, *Director, Research Management Programs, Mayo Clinic Center for Clinical and Translational Science (CCaTS), Professor of Anesthesiology, Mayo Clinic College of Medicine, Rochester, Minnesota*

Fellowship Training – Pride or Prejudice

James P. Rathmell, MD, *Executive Vice Chair and 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*

Opportunities in Private Practice in Anesthesia: Does This Still Exist?

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

The Ten Most Difficult Questions from OpenAnesthesia Explained

Edward C. Nemergut, MD, *Associate Professor of Anesthesiology and Neurological Surgery, Program Director, Department of Anesthesiology, University of Virginia, Charlottesville, Virginia; Editor-in-Chief, OpenAnesthesia*

Saturday, May 17, 3:15 – 5:15 pm

Regional Ultrasound Guided Workshop

Presenters

Juan Francisco Asenjo, MD, *Montréal General Hospital, McGill University Health Centre, Montréal, Quebec, Canada*

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

Andrew D. Rosenberg, MD, *Professor of Anesthesiology and Dorothy Reaves Spatz MD Chair of the Department of Anesthesiology, NYU School of Medicine, New York, New York*

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

Sunday, May 18, 7:30 – 8:30 am

Abstract Awards Session

Compete for a \$1,000 prize and the honor of being named Best Resident Abstract at the IARS 2014 Annual Meeting

Sunday, May 18, 8:30 – 10:00 am

Workshop: *Your Employment Contract: Things You Don't Want to Miss!*

Presenters

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

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*

Daily Schedule-At-A-Glance

6:00 am – 5:00 pm **Registration**

7:00 am – 4:30 pm **Concurrent Sessions**

- Review Course Lectures
- Panels
- Hands-On Workshops
- Moderated Poster Discussion Rounds

7:30 – 8:30 am **Resident Abstract Awards Session**

8:00 – 11:00 am **International Science Symposium**
*Inflammation and its
Perioperative Implications*

8:30 – 10:00 am **Resident Contract Workshop**
*Your Employment Contract:
Things You Don't Want To Miss!*

12:30 – 1:30 pm **Lunch Sessions**

- Anesthesia & Analgesia Case Reports
- Problem-Based Learning Discussions (PBLD's)

1:30 – 4:30 pm **Symposium**
*Enhanced Surgical Recovery Program:
The Role of the Anesthesiologist*

6:00 am – 2:00 pm **Tabletop Exhibits**

REVIEW COURSE LECTURES

RCL-07 • 7:00 am – 7:55 am

RISK STRATIFICATION AND ASSESSMENT OF THE OLDER SURGICAL PATIENT: ARE WE MISSING SOMETHING?

Presenter: *Leanne Groban, MD, Professor, Cardiothoracic Anesthesiology Hypertension and Vascular Research Center, Office of Women in Medicine and Science, Sticht Center on Aging, Wake Forest Baptist Medical Center, Winston-Salem, North Carolina*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the value and limitations of using traditional risk assessment tools in predicting recovery and outcome in older surgical patients. (2) Define the outcome measures that are important in this population, e.g. return to independence, physical function, “happy days”; and (3) Apply geriatric-specific measures of risk assessment, including mobility, nutritional status, cognitive function, and frailty status, to aid in pre- or postoperative care strategies that may improve outcomes in older surgical patients.

RCL-08 • 8:00 am – 8:55 am

ACUTE CARE OF TRAUMATIC SPINAL CORD INJURY

Presenter: *Arman Dagal, MD, FRCA, Assistant Professor, Department of Anesthesiology and Pain Medicine and Department of Orthopaedics and Sport Medicine, Adjunct Assistant Professor of Neurological Surgery, Division Head of Spine and Orthopaedic Anesthesia Services, Harborview Medical Center, University of Washington, Seattle, Washington*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Analyze the spinal cord injury burden; (2) Examine and validate the proposed treatment options in acute spinal cord injury care; and (3) Describe the established and emerging concepts in spinal cord perfusion.

RCL-09 • 9:00 am – 9:55 am

TTE AND PERIOPERATIVE MEDICINE: WHY YOU SHOULD LEARN IT

Presenter: *Joshua M. Zimmerman, MD, FASE, Associate Professor, Medical Director, Preoperative Clinic; Director of Education, Perioperative Echocardiography, University of Utah Department of Anesthesiology, Salt Lake City, Utah*

RCL-10 • 10:30 am – 11:25 am

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

Presenter: Michael 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, Secretary, Association of University Anesthesiologists*

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-11 • 11:30 am – 12:25 pm

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

Presenter: Thomas Vetter, MD, MPH, *Maurice S. Albin Professor of Anesthesiology and Vice Chair Director, Division of Pain Medicine Medical Director, UAB Preoperative Assessment, Consultation and Treatment Clinic*

Professor of Gerontology, Geriatrics, and Palliative Care, Professor of Pediatrics, University of Alabama at Birmingham School of Medicine; Professor of Health Care Organization and Policy, University of Alabama at Birmingham School of Public Health

Learner Objectives: After participating in this activity, the learner will be able to: (1) Provide data-based rationale for perioperative patient-centered blood management; (2) Identify the fundamentals of a preoperative anemia management program (PAMP); (3) Review the development and implementation of an anesthesiology-based PAMP; (4) Define the role of an anesthesiology-based PAMP in a Perioperative Surgical Home Model; and (5) Propose a business model that demonstrates the cost savings and “added value” of a PAMP.

RCL-12 • 1:30 pm – 2:25 pm

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.

PANELS



P-04 • 7:00 am – 8:30 am

**PRACTICE ADVISORY ON NEUROLOGICAL
COMPLICATIONS OF REGIONAL ANESTHESIA**

Moderator: Joseph M. Neal, MD

Panelists:

■ **Neuraxial Complications Associated with Regional Anesthesia**

Joseph M. Neal, MD, *Anesthesiology Faculty, Virginia Mason Medical Center, Seattle, Washington*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Integrate the pathophysiology of neuraxial injury with clinical recommendations that may reduce patient injury; (2) Distinguish those patient management practices that may affect neuraxial injury; and (3) Identify those emerging conditions that have been associated with neuraxial injury in the setting of regional anesthesia.

■ **Peripheral Nerve Complications Associated
with Regional Anesthesia**

Richard Brill, MD, *Associate Professor, University of Toronto, Toronto, Ontario, Canada*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Integrate the pathophysiology of peripheral nerve injury with clinical recommendations that may reduce patient injury; (2) Distinguish those patient management practices that may affect peripheral injury; (3) Assess the relative value of monitoring options for reducing the likelihood of peripheral nerve injury.

■ **Performing Regional Anesthesia in Patients
with Pre-Existing Neurological Disease**

James R. Hebl, MD, *Professor, Anesthesiology, Mayo Clinic, Rochester, Minnesota*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Differentiate those pre-existing patient conditions that may increase the risk of perioperative neurologic injury; (2) Describe modifications to anesthetic technique that may theoretically lessen the risk of injury in patients with pre-existing disease; (3) Identify those non-anesthetic conditions that contribute to perioperative nerve injury.

8:00 am – 11:00 am

International Science Symposium
Inflammation and its Perioperative 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*

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

**Immunotherapy of Sepsis –
Promises and Pitfalls**

Richard Hotchkiss, MD

*Professor of Anesthesiology, Medicine, and Surgery,
Molecular Biology and Pharmacology
Washington University School of Medicine
St. Louis, Missouri*

**Failure to Resolve Inflammation – Pathogenesis
for Postoperative Complications**

Mervyn Maze, MB ChB, FRCP, FRCA, FMedSci

*William K. Hamilton Distinguished Professor of Anesthesiology
Professor and Chair, Department of Anesthesia and
Perioperative Care
UCSF School of Medicine
San Francisco, California*

**MicroRNAs in the Resolution
of Perioperative Inflammation**

Holger K. Eltzschig, MD, PhD

*Professor of Anesthesiology, Medicine,
Cell Biology and Immunology
Director, Organ Protection Program
Department of Anesthesiology
University of Colorado School of Medicine
Denver, Colorado*

PANELS – continued

European Society of Anaesthesiology **ESA** P-05 • 7:00 am – 8:30 am

OPTIMIZING PATIENTS UNDERGOING SURGERY

Moderators:

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

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

■ **Can We Identify the Patient Prone For Postoperative Complications?**

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

■ **Perioperative Fluid Therapy: Should We Abandon Saline and Do We Need Colloids?**

Robert Hahn, MD, PhD, Head of Research, Södertälje Hospital, Södertälje, Sweden, Professor of anaesthesia & intensive care, Linköping University, Registered researcher and Associate professor (docent), Karolinska Institutet, Stockholm, Sweden

■ **Multimodal Anesthesia: Are Adjuvant Substances to Standard Balanced Anesthesia Useful?**

Claude Meistelman, MD, Professor of Anesthesiology, Chair, Department of Anesthesiology and Intensive Care Medicine, Hopital de Brabois, Université de Lorraine, France

■ **Perioperative Goal Directed Therapy: Which Patients, Which Tools?**

Wolfgang Buhre, MD, Professor of Anesthesiology, Chair, Department of Anesthesiology and Pain Medicine University Medical Center Maastricht, The Netherlands

Learner Objectives: After participating in this activity, the learner will be able to: (1) Name the primary risk factors for postoperative complications in surgical patients; (2) Know the primary pro and con arguments for performing fluid resuscitation using saline and/or colloid solutions; (3) Be able to understand the benefits and drawbacks of drugs of interest as additives to conventional standard balanced anesthesia; and (4) Name the patient groups for whom recent studies show clear benefit of goal-directed fluid therapy.



P-06 • 8:30 am – 10:00 am

CONTROVERSIES IN NEUROSCIENCE IN ANESTHESIOLOGY AND CRITICAL CARE

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:

■ **The Beach Chair Position: Can We Really Relax?**

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: (1) Estimate the frequency of neurologic injury associated with surgery in the beach chair position; (2) Explain the sporadic (and seemingly idiosyncratic) occurrence of these neurologic injuries; and (3) Examine the validity of the “closed loop” model of the cerebral circulation.

■ **Anesthetic Agents: Neuroprotective or Neurotoxic?**

Gregory J. Crosby, MD, Vice Chairman for Finance and Administration, Department of Anesthesiology, Brigham and Women’s Hospital, Associate Professor, Harvard University, Boston, Massachusetts

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify the evidence (and lack thereof) of clinical neuroprotection with anesthetic agents; (2) Discuss recent research examining anesthetic-induced neurotoxicity; and (3) Examine clinical implications of current understanding of neuroprotective and neurotoxic properties of anesthetic agents.

■ **Glucose: Essential Nutrient or Brain Toxin?**

W. Andrew Kofke, MD, MBA, FCCM, Professor of Anesthesiology and Critical Care, University of Pennsylvania, Philadelphia, Pennsylvania

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the biochemical basis of exacerbation of ischemic brain injury by hyperglycemia and discuss preclinical studies of hyperglycemia exacerbation of ischemic brain damage; (2) Discuss the conflicts and controversies in clinical studies on using insulin to ensure normoglycemia in critically ill patients; and (3) Intelligently select blood glucose goals for their patients.

PANELS – continued



P-07 • 8:30 am – 10:00 am

**ANESTHESIA & ANALGESIA
REVIEWER GUIDANCE PANEL:
HOW TO BECOME A GOOD REVIEWER**

Moderator: Mark Rice, MD

Panelists:

■ **How (and Why) Should I Become a Reviewer?**

- Administrative Set-up of the Journal
- Review Process

Steven L. Shafer, MD, *Professor of Anesthesiology, Perioperative and Pain Medicine, Stanford University Medical Center, Stanford, California, Editor-In-Chief, Anesthesia & Analgesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Decide if he / she should become a reviewer; (2) Understand the administrative set-up of *Anesthesia & Analgesia*; and (3) Outline the entire review process for submitted manuscript.

■ **You Have a Manuscript to Review. Now What?**

- Ready to Write the Review
- Specifics of Review

Mark J. Rice, MD, *Section Chief, Liver Transplantation and General Surgery Sections, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Devise a plan for reviewing a manuscript; (2) Utilize ideas to improve a manuscript; and (3) Relate how to provide a constructive review.

■ **Submitting Review**

- Editor's Responsibility

Sorin Brull, MD, FCARCSI (Hon), *Professor of Anesthesiology, Mayo Clinic, College of Medicine, Consultant, Department of Anesthesiology, Mayo Clinic, Jacksonville, Florida; Clinical Professor (Courtesy), Department of Anesthesiology, University of Florida, Gainesville, Florida*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Utilize the editorial manager to submit a review; (2) Point out the editor's responsibility in the review process; and (3) Explain the revision process of *Anesthesia & Analgesia*



P-08 • 10:30 am – 11:30 am

**PART I: ASSESSMENT PROGRAMS FOR PRIMARY
CERTIFICATION IN ANESTHESIOLOGY**

- Description of the traditional Part 1 and Part 2 Examinations
- Overview of the Part 2 Examination process, including specific areas evaluated in the exam, common problems encountered by candidates, and discussion of the successful candidate
- Transition to the new Staged Examinations, including overview of the BASIC, ADVANCED and APPLIED Examinations

**PART II: MAINTENANCE OF CERTIFICATION IN
ANESTHESIOLOGY PROGRAM (MOCA®)**

- Part 1: Assessments of Medical Licensure
- Part 2: 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:

James P. Rathmell, MD, *Executive Vice Chair and 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*

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*

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P-09 • 10:30 am – 12:00 pm

**TACKLING INPATIENT-TYPE PROBLEMS
IN THE OUTPATIENT SETTING**

Moderator: Kumar Belani, MD

Panelists:

■ **Implanted Cardiac Devices**

Alan P. Marco, MD, MMM, FACPE, *Dean of Faculty and Clinical Affairs at the Wright State University Boonshoft School of Medicine and President and CEO of Wright State Physicians, Dayton, Ohio*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify types of devices used by ambulatory patients and how they work; (2) Determine which devices can be handled by their facility; and (3) Recognize how the procedures/anesthetics may influence a patient's device.

■ **Difficult Airway in the ASC Setting**

Girish P. Joshi, MB, BS, MD, FFARCSI, *Professor of Anesthesiology and Pain Management at the University of Texas Southwestern Medical School, Director of Perioperative Medicine and Ambulatory Anesthesia at Parkland Health and Hospital Systems, Dallas, Texas*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Recognize difficult mask ventilation and difficult tracheal intubation; (2) Be familiar with the management of a patient with unrecognized difficult airway in an ambulatory surgery setting; and (3) Discuss the plan for tracheal extubation and postoperative care in these patients.

■ **MH Patients in an ASC: Pro**

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

■ **MH Patients in an ASC: Con**

Richard D. Urman, MD, MBA, *Director, Procedural Sedation Management, Attending Anesthesiologist, Brigham and Women's Hospital, Instructor, Harvard Medical School, Boston, Massachusetts*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Effectively determine the risk of MH compared to an index case; (2) Identify what diseases are genetically linked to MH; and (3) Assess their facility for preparedness for an MH crisis.



Liver Intensive Care
Group of Europe

P-10 • 1:30 pm – 3:00 pm

**METABOLIC SYNDROME AND THE LIVER:
A NEW EPIDEMIC?**

Moderator: Gebhard Wagener, MD

Panelists:

■ **Non-Alcoholic Fatty Liver Disease (NAFLD):
The Hepatologist's Perspective**

Paul D. Berk, MD, FACP, *Professor of Medicine, Department of Medicine, Division of Digestive and Liver Disease, College of Physicians & Surgeons of Columbia University, New York, New York*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the pathophysiologic relationship between obesity and liver dysfunction; (2) Learn the definition of nonalcoholic steatohepatitis-NASH and non-alcoholic fatty liver disease – NAFLD; (3) Recognize the clinical presentation of non-alcoholic fatty liver disease; (4) Appreciate the effect of the obesity epidemic on the incidence of liver dysfunction and NAFLD; and (5) Delineate treatment options and outcome for NAFLD.

■ **NAFLD and Liver Transplantation**

Roman Schumann, MD, *Vice Chair for Academic Affairs, Department of Anesthesiology, Tufts Medical Center, Vice Chair, Institutional Review Board, Tufts University Health Sciences, Staff Anesthesiologist, Department of Anesthesiology, Tufts Medical Center, Boston, Massachusetts*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the anesthetic implications of obesity and liver dysfunction on patients undergoing major surgery; (2) Recognize the limitations of conventional liver function tests in the diagnosis of obesity induced liver dysfunction; (3) Comprehend the role of dynamic liver function tests in the assessment of liver function; (4) Develop an anesthetic plan for patients with metabolic syndrome and obesity induced liver dysfunction; and (5) Realize common perioperative complications and pitfalls in these patients.

■ **Liver Transplantation in 2014:
Where are We and Where are We Going?**

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) Describe the current role of liver transplantation as a treatment option for NAFLD; (2) Assess the indications for liver transplantation in patients with NAFLD; (3) Discuss the co-morbidities that affect the perioperative management of patients with NAFLD undergoing liver transplantation; (4) Appreciate the outcome and complications after liver transplantation for NAFLD; and (5) Explain the implications of a the "obesity epidemic" on the future of liver transplantation.

PANELS – continued



P-11 • 1:30 pm – 3:00 pm

A DISTILLATION OF CURRENT PRACTICE GUIDELINES AND CONSENSUS STATEMENTS: WHAT'S NEW AND HOW CAN YOU INTEGRATE IT INTO YOUR PRACTICE?

Moderator: Colleen G. Koch, MD, MS, MBA, FACC

Panelists:

■ **2013 ASE/ SCA Guidelines for Performing a Basic and Comprehensive TEE Examination**

Alan C. Finley, MD, Assistant Professor, Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina

Learner Objectives: After participating in this activity, the learner will be able to: (1) Become aware of the current practice guidelines for performing a basic TEE examination; (2) Demonstrate components of a basic TEE examination; (3) Become aware and demonstrate components of the comprehensive TEE examination; (4) Recognize differences between the basic and comprehensive TEE examinations; and (5) Reveal how application of practice guidelines can enhance the quality of the echocardiographic examination.

■ **2011 STS/ SCA Update on Blood Conservation Clinical Practice Guidelines**

Colleen G. 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) Become aware of updates to the STS/SCA blood conservation guidelines; (2) Demonstrate how application of components of the practice guidelines can enhance patient care; and (3) Recognize areas of recommendations that are in need of more research data.

■ **2011 ASE/ SCA Guidelines for Performing Ultrasound Guided Vascular Cannulation**

Chris Troianos, MD, Professor and Chief of Anesthesiology, Western Pennsylvania Hospital, Anesthesiology Residency Program Director, Allegheny Health Network, Western Campus of Temple University School of Medicine, Pittsburgh, Pennsylvania, Secretary/Treasurer, Society of Cardiovascular Anesthesiologists

Learner Objectives: After participating in this activity, the learner will be able to: (1) Become aware of the 2011 ASE/SCA practice guidelines on the role of ultrasound guided vascular cannulation; (2) Demonstrate examples where application of guidelines enhanced patient outcome; and (3) Learn how to integrate guidelines into your clinical practice.

SmartTots P-12 • 3:00 pm – 4:30 pm

SMARTTOTS PANEL: PEDIATRIC NEUROTOXICITY

Moderator: **Lena S. Sun, MD, E.M.**, Papper Professor of Pediatric Anesthesiology, Professor of Anesthesiology and Pediatrics, Vice Chairman, Department of Anesthesiology, Chief, Division of Pediatric Anesthesia, Columbia University Medical Center, New York, New York

■ **Using Pre-Clinical Studies to Guide Research in Humans**

Andreas W. Loepke, MD, PhD, Principal Investigator in Anesthesiology, Cincinnati Children's Research Foundation, Attending Anesthesiologist, Division of Cardiac Anesthesia, Department of Anesthesiology, Cincinnati Children's Hospital Medical Center, Associate Professor of Clinical Anesthesia and Pediatrics, University of Cincinnati College of Medicine, Cincinnati, Ohio

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate the evidence for anesthetic neurotoxicity as demonstrated in animal studies. (2) Recognize the neurodevelopmental context during exposure and its effect on toxicity. (3) Be able to discuss similarities and differences between animals and humans as they relate to clinical research into the phenomenon.

■ **Important Considerations in Neurodevelopmental Outcome Studies**

David Bellinger, PhD, Senior Research Associate in Neurology, Children's Hospital Boston, Professor of Neurology, Harvard Medical School, Professor of Psychology, Department of Psychiatry, Harvard Medical School, Boston, Massachusetts

■ **Translational Approaches to Treat Anesthetic Neurotoxicity**

Richard J. Levy, MD, Associate Chief, Anesthesiology and Pain Medicine & Director, Cardiac Anesthesia, Principal Investigator, Children's Research Institute (CRI), Center for Genetic Medicine Research (CGMR), Associate Professor of Anesthesiology, Pediatrics, and Integrative Systems Biology, George Washington University School of Medicine and Health Sciences, Washington, DC

Learner Objectives: After participating in this activity, the learner will be able to: (1) Determine the intrinsic apoptosis pathway. (2) Review the mechanisms of anesthesia-induced neurotoxicity (3) Detail the various experimental therapies that have demonstrated benefit in preclinical animal studies.



P-13 • 3:00 pm – 4:30 pm

OBESITY AND INFLAMMATORY CONDITIONS IN THE PERIOPERATIVE PERIOD

Moderator: Roman Schumann, MD, *Vice Chair for Academic Affairs, Department of Anesthesiology, Tufts Medical Center, Vice Chair, Institutional Review Board, Tufts University Health Sciences, Staff Anesthesiologist, Department of Anesthesiology, Tufts Medical Center, Boston, Massachusetts*

Panelists:

Stephanie Jones, MD, *Vice Chair for Education, Associate Professor, Beth Israel Medical Center, Boston, Massachusetts*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Distinguish obesity from the metabolic syndrome; (2) Associate obesity and the metabolic syndrome with the different components of the systemic inflammatory response; and (3) Discuss the influence of metabolic health on postoperative outcomes.

Michael A. E. Ramsay, MD, FRCA, *Chairman, Department of Anesthesiology & Pain Management, President, Baylor Research Institute, Baylor University Medical Center at Dallas, Dallas, Texas*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss how anesthesia and surgery may adversely affect the inflammatory state associated with obesity; (2) Identify preoperative management strategies to reduce the inflammatory state associated with obesity and metabolic syndrome; and (3) Learn what measures may be put in place during the perioperative period to protect the obese patient.

Frances Chung, MBBS, FRCPC, *Professor of Anesthesiology, University of Toronto, Medical Director, Combined Surgical Unit, Ambulatory Surgical Unit, University Health Network, Toronto, Ontario, Canada, President, Society of Anesthesia and Sleep Medicine (SASM)*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate the association of obstructive sleep apnea with different components of the systemic inflammatory response; (2) Appraise the role of CPAP in the perioperative inflammatory response in patients with obstructive sleep apnea; and (3) Summarize the effects of CPAP on perioperative outcomes.

Mervyn Maze, MD, ChB, FRCP, FRCA, FMedSci, *William K. Hamilton Distinguished Professor of Anesthesiology; Professor and Chair, Department of Anesthesia and Perioperative Care, UCSF School of Medicine, San Francisco, California*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the role of the innate immune system in cognitive function; (2) Explain the relationship between cognitive dysfunction and sleep disorder states; (3) Recognize the need for future research in this area.

PROBLEM-BASED LEARNING DISCUSSIONS – 12:30 – 1:30 pm



PBLD-SUN-01

MY PATIENT IS NOT WAKING UP AFTER THIS CRANIOTOMY, WHAT SHOULD I DO?

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

Learner Objectives: After participating in this activity, the learner will be able to: (1) Summarize the differential diagnosis of delayed emergence after general anesthesia and specific differences in craniotomies; (2) Identify the role of ancillary medications used in a variety of craniotomy cases and their role in speed of emergence; (3) Provide a systematic approach to establish a diagnosis for delayed emergence; and (4) Recognize the importance of rapid communication with the surgeon in delayed emergence and management options.



PBLD-SUN-02

ANAPHYLAXIS? WHAT DO I DO IN THE ASC?

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

PBLD-SUN-03

OBESITY AND PERIOPERATIVE OUTCOMES – BEYOND THE OBESITY PARADOX

Moderator: Avinash Kumar, MD, FCCP, FCCM, *Medical Director Neuroscience ICU, Associate Fellowship Director-Critical Care, Associate Professor Anesthesia and Critical Care, Nashville, Tennessee*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Summarize the differential diagnosis of delayed emergence after general anesthesia and specific differences in craniotomies; (2) Identify the role of ancillary medications used in a variety of craniotomy cases and their role in speed of emergence; (3) Provide a systematic approach to establish a diagnosis for delayed emergence; and (4) Recognize the importance of rapid communication with the surgeon in delayed emergence and management options.

**PROBLEM-BASED
LEARNING DISCUSSIONS – 12:30 – 1:30 pm
continued**

PBLD-SUN-04

**PERIOPERATIVE HEALTH IT: IMPACT ON REVENUE, COSTS,
COMPLIANCE, AND SAFETY**

Moderators:

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

Jonathan P Wanderer, MD, Assistant Professor, Division of Multispecialty Adult Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

Learner Objectives: After participating in this activity, the learner will be able to: (1) Contrast the major shifts in standardization and innovation as perioperative information management systems (PIMS) have migrated from institution-developed to vendor-supported products due to government regulations; (2) Differentiate between several regulatory bodies and recognize how each can significantly impact practice revenue; (3) Evaluate a recent medication selection process change to reduce costs and conclude whether vendor-based solutions would be likely to implement a similar real-time innovative software feature; (4) Evaluate a recent innovation in an institutionally-developed PIMS to identify a patient condition and auto-generate an order to improve perioperative safety and conclude whether vendor-based solutions would be likely to implement such a feature; and (5) Assess the standardization and compliance quality of their PIMS and identify innovation barriers and opportunities.

WORKSHOPS

W-03 • 1:30 pm – 4:30 pm

**ULTRASOUND, SIMULATION AND STIMULATION FOR
PERIPHERAL NERVE BLOCKS**

Workshop Leader: Andrew D. Rosenberg, MD, Professor of Anesthesiology and Dorothy Reaves Spatz MD Chair of the Department of Anesthesiology, NYU School of Medicine, New York, New York

Presenters:

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

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

Sudheer K Jain, MD, Assistant Professor, Assistant Clinical Director, Department of Anesthesiology, NYU 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

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

Peter Neuberger MD, Assistant Professor, Department of Anesthesiology, NYU Langone Medical Center, New York, New York

Meg Rosenblatt, MD, Professor of Anesthesiology, Professor of Orthopaedics, Department of Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York

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

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.

**This workshop is offered as a stand-alone course and also a segment of the three-part comprehensive regional anesthesia course which includes the Advanced Ultrasound-Guided Nerve Block and the In Vivo Workshop in Pigs.*

1:30 pm – 4:30 pm

Symposium

Enhanced Surgical Recovery Program: The Role of the Anesthesiologist

Moderator

Enhanced Surgical Recovery Program – The Big Picture

Tong Joo (T.J.) Gan, MD, MHS, FRCA, FFARCS(I)

Presenters

Preoperative Assessment and Optimization

Franco Carli, MD, MPhil, *Professor, Department of Anesthesia, The Montréal General Hospital – MUHC, Montréal, Quebec, Canada*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the contribution of preoperative assessment to the overall ERAS program; (2) Identify the various methods to optimize patients preoperatively; (3) Discuss the impact of patient education; (4) Identify strategies to encourage patient participation in their care; and (5) Implement preoperative improvement process in their respective hospitals.

The Role of Regional Anesthesia in Abdominal Surgeries

Stuart Grant, MB, ChB, *Anesthesiologist, Regional Anesthesia Division, Duke University Medical Center, Durham, North Carolina*

Optimum Pain and Anesthetic Management Strategy

Tong Joo (T.J.) Gan, MD, MHS, FRCA, FFARCS(I), *Vice Chairman, Professor, Anesthesiology, Duke University Medical Center, Durham, North Carolina*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the issues regarding acute pain management; (2) Discuss the burden of opioid-based therapy; (3) Identify the methods for providing a fast-tracked anesthetic; (4) Identify a multi-modal analgesic regimen; and (5) Impact of optimal pain and anesthetic management on patient outcome.

Perioperative Hemodynamic and Fluid Management

Maxime Cannesson, MD, PhD, *Professor of Anesthesiology, Department of Anesthesiology and Perioperative Care, University of California – Irvine, Irvine, California, Section Editor for Technology Monitoring and Computing, Anesthesia & Analgesia*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate hemodynamics response to fluid therapy; (2) Identify different techniques for monitoring fluid responsiveness; (3) Recognize the different fluid management strategies; (4) Discuss the choice of fluid therapy; and (5) Discuss the impact of fluid therapy on patient outcomes.

Enhanced Surgical Recovery Program: Clinical and Economic Outcomes

Timothy Miller, MD, *Assistant Professor of Anesthesiology, Anesthesiologist, GVTU Division, Duke University Medical Center, Durham, North Carolina*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Evaluate outcome data following ERAS regimen; (2) Discuss contribution of ERAS components on postoperative outcome; (3) Identify the consequences of patients undergoing ERAS program; (4) Discuss the impact of ERAS program on economics of care; and (5) Identify the impact of ERAS program on care givers.

SmartTots

SmartTots Workshop

Friday, June 20, 2014
Sheraton Crystal City Hotel,
Washington, DC

WORKSHOP AGENDA

Updates on the ongoing studies, including results to date.

Additional studies needed to answer the questions about the potential neurotoxicity of anesthetics in the developing human brain.

Dealing with the uncertainties about anesthetics and children in the practice environment.

Does the Consensus Statement on the Use of Anesthetics and Sedatives in Children need revision?

Raising the funds required to conduct the needed studies.

OPEN TO ALL INTERESTED PROFESSIONALS
No registration fee

Please contact Rebekah Davies, IARS Program Manager for more information or to register for the workshop. rdavies@iars.org



IARS
International Anesthesia Research Society

SmartTots

SmartTots Panel on Pediatric Neurotoxicity

Sunday, May 18, Montreal, Canada at the
IARS 2014 Annual Meeting | **3:00 p.m.**

MODERATOR

Dr. Lena Sun of Columbia University Medical Center

SPEAKERS AND TOPICS

Dr. Andreas Loepke, Cincinnati Children's Hospital: *Using Pre-Clinical Studies to Guide Research in Humans*

Dr. David Bellinger, Boston Children's Hospital: *Important Considerations in Neurodevelopmental Outcome Studies*

Dr. Richard Levy, Children's National Medical Center (DC): *Translational Approaches to Study Anesthetic Neurotoxicity*



IARS
International Anesthesia Research Society

Program Schedule • IARS 2014 Annual Meeting

	TIMES	REVIEW COURSE LECTURES	PANELS	PANELS	
SATURDAY, MAY 17	FOCUS ON CRITICAL CARE	6:00 am - 5:00 pm	6:00 am - 5:00 pm: Registration		
		7:00 - 8:00 am	7:00 - 8:00 am: Continental Breakfast & Exhibits		
		8:00 - 9:00 am	8:00 - 8:30 am: Opening General Session: Welcome • 8:30 - 9:30 am: T.H. Seldon Memorial Lecture: Global Challenges in Anesthesia: Are We Doing Enough?		
		9:00 - 10:00 am	9:30 - 10:00 am: Break & Exhibits		
		10:00 am - 12:00 pm	RCL-01: 10:00 - 10:55 am: Anesthesia Advanced Circulatory Life Support RCL-02: 11:00 - 11:55 am: Ten (10) Things You Always Wanted to Know About Pediatric Anesthesia	P-01: 10:00 - 11:30 am: APSF PANEL Positioning Complications: The "Little Problem" That Keeps Getting Bigger!	
		Lunch Sessions 12:00 - 1:00 pm	Case Report Session SAT-01	PBLD-SAT-01: APSF: Nerve Injuries: Mechanisms and Liabilities	PBLD-SAT-02: SOCCA: A Complex Challenge: Spinal Instrumentation Requiring Aggressive Resuscitation Techniques and Multimodal Analgesia
		1:00 - 4:00 pm	RCL-03: 1:00 - 1:55 pm: Therapeutic Potential of Mesenchymal Stromal Cell Therapy For Acute Respiratory Distress Syndrome		
		2:00 - 5:30 pm	RCL-04: 2:00 - 2:55 pm: Value Based Care: The Role of the Anesthesiologist RCL-05: 3:00 - 3:55 pm: Beating Joe Camel: How Addressing Tobacco Use Helps Your Patients and Your Practice RCL-06: 4:00 - 4:55 pm: Controversies in Patient Safety: Making Perioperative Care Safer in 2014	P-02: 2:30 - 4:00 pm: SOCCA PANEL From The ICU To The OR: Critical Illness Intraoperative Decisions In The OR P-03: 4:00 - 5:30 pm: AJA PANEL From Health Policy to Research That Influences Adoption and Care	
		5:00 - 6:00 pm	5:00 - 6:00 pm: Attendee Reception		
SUNDAY, MAY 18	6:00 am - 5:00 pm	6:00 am - 5:00 pm: Registration			
	6:00 - 7:00 am	6:00 - 7:00 am: Continental Breakfast & Exhibits			
	7:00 - 8:00 am	RCL-07: 7:00 - 7:55 am: Risk Stratification and Assessment of the Older Surgical Patient: Are We Missing Something?	P-04: 7:00 - 8:30 am: ASRA PANEL Practice Advisory on Neurologic Complications of Regional Anesthesia	P-05: 7:00 - 8:30 am: ESA PANEL Optimizing Patients Undergoing Surgery	
	8:00 - 9:00 am	RCL-08: 8:00 - 8:55 am: Acute Care of Traumatic Spinal Cord Injury	P-06: 8:30 - 10:00 am: SNACC PANEL Controversies in Neuroscience in Anesthesiology and Critical Care	P-07: 8:30 - 10:00 am: A&A Reviewer Guidance Panel: How to Become a Good Reviewer	
	9:00 - 10:00 am	RCL-09: 9:00 - 9:55 am: TTE and Perioperative Medicine: Why You Should Learn It			
	10:00 - 10:30 am	10:00 am - 10:30 am: Break & Exhibits			
	10:30 am - 12:30 pm	RCL-10: 10:30 - 11:25 am: BIS Monitoring and Perioperative Outcomes: Does It Make A Difference? RCL-11: 11:30 am - 12:25 pm: Tighten Your Belts: Reduce Your Transfusion Costs With Pre-Operative Management of Anemic Patients	P-08: 10:30 - 11:30 am: ABA PANEL Assessment Programs For Primary Certification In Anesthesiology ABA Maintenance of Certification in Anesthesiology Program (MOCA)	P-09: 10:30 - 12:00 pm: SAMBA PANEL Tackling Inpatient-Type Problems in the Outpatient Setting	
	Lunch Sessions 12:30 - 1:30 pm	Case Report Session SUN-01	PBLD-SUN-01: SNACC: My Patient Is Not Waking Up After This Craniotomy, What Should I Do?	PBLD-SUN-02: SAMBA: Is This Anaphylaxis? What Do I Do In The ASC?	
	1:30 - 4:30 pm	RCL-12: 1:30 - 2:25 pm: Anesthesia for Electrophysiology	P-10: 1:30 - 3:00 pm: LICAGE PANEL Metabolic Syndrome and the Liver A New Epidemic? P-12: 3:00 - 4:30 pm: SMARTTOTS PANEL Pediatric Neurotoxicity	P-11: 1:30 - 3:00 pm: SCA PANEL A Distillation of Current Practice Guidelines and Consensus Statements: What's New And How Can You Integrate It Into Your Practice? P-13: 3:00 - 4:30 pm: ISPOC PANEL Obesity and Inflammatory Conditions in the Perioperative Period	
MONDAY, MAY 19	6:00 am - 5:00 pm	6:00 am - 5:00 pm: Registration			
	6:00 - 7:00 am	6:00 - 7:00 am: Continental Breakfast & Exhibits			
	7:00 - 10:00 am	RCL-13: 7:00 - 7:55 am: Regional Anesthesia For Orthopedic Surgery: Blocks That Everyone Should Know!	P-14: 7:00 - 8:30 am: SPA PANEL Promoting Patient Safety: Strategies to Reduce Anesthetic Risk in Children		
		RCL-14: 8:00 - 8:55 am: Don't Make Things Worse With Your Ventilator Settings!		P-16: 8:30 - 10:00 am: SASM PANEL Peri-operative Sleep	
		RCL-15: 9:00 - 9:55 am: Misunderstandings in Neuroanesthesia	P-15: 8:30 - 10:00 am: TAS PANEL Fluid Resuscitation for the Trauma Patient		
	10:00 - 10:30 am	10:00 - 10:30 am: Break & Exhibits			
	10:30 am - 12:30 pm	RCL-16: 10:30 - 11:25 am - The Link Between Acute & Chronic Pain Review Course Lecture 17: 11:30 am - 12:25 pm	P-17: 10:30 am - 12:00 pm: STA PANEL Automation, Robotics and the Influence of the Latest Technologies on Anesthesia Care Providers	P-18: 10:30 am - 12:00 pm: Translational Neuroscience Panel	
Lunch Sessions 12:30 - 1:30 pm	Case Report Session MON-01	PBLD-MON-01: SPA - Neonate, Can't Ventilate: Let Me Count the Ways in a Child with TEF	PBLD-MON-02: SOAP - Surgery in the Pregnant or Breastfeeding Patient		
2:00 - 5:00 pm	Review Course Lecture 18: 1:30 - 2:25 pm Review Course Lecture 19: 2:30 - 3:25 pm Review Course Lecture 20: 3:30 - 4:25 pm	P-19: 1:30 - 3:00 pm: ISAP PANEL Do You Know Your Anesthetic? The Art and Science of Clinical Pharmacology P-21: 3:00 - 4:30 pm: Long Term Outcomes After Non-Cardiac Surgery	P-20: 1:30 - 3:00 pm: Does Anesthesia Damage The Brain? The Science Behind It All P-22: 3:00 - 4:30 pm: ASA Blood Guidelines		
TUESDAY, MAY 20	6:00 - 11:30 am	6:00 - 11:30 am: Registration			
	7:00 - 8:00 am	7:00 am - 8:00 am: Continental Breakfast & Networking			
	7:00 - 8:00 am	PBLD-TUE-01: 7:00 - 8:00 am: Pediatric Airway Difficulties	PBLD-TUE-02: 7:00 - 8:00 am: The Day-Surgery Spine Case with Difficult Airway and Chronic Opioid Use: How Do We Make It Happen?	PBLD-TUE-03: 7:00 - 8:00 am: Strategies to Improve Quality of Recovery after Surgery: New Paradigms	
	8:00 - 11:00 am	RCL-21: 8:00 - 8:55 am: Obstetric Hemorrhage - The Right Response At The Right Time RCL-22: 10:00 - 10:55 am: Anesthetics and Inflammation: A Perfect Storm for Long-Term Memory Loss	P-23: 8:00 - 9:30 am: SAM PANEL Management of Airway Dilemmas P-24: 9:30 - 11:00 am: SOAP PANEL Neuraxial Labor Analgesia: Tricks of the Trade		

Program Schedule • IARS 2014 Annual Meeting

WORKSHOPS	SPECIAL SESSIONS			RESIDENT'S PROGRAM	POSTER SESSIONS	TIMES
6:00 am - 5:00 pm: Registration						6:00 am - 5:00 pm
7:00 - 8:00 am: Continental Breakfast & Exhibits						7:00 - 8:00 am
8:00 - 8:30 am: Opening General Session: Welcome • 8:30 - 9:30 am: T.H. Seldon Memorial Lecture: Global Challenges in Anesthesia: Are We Doing Enough?						8:00 - 9:00 am
9:30 - 10:00 am: Break & Exhibits						9:00 - 10:00 am
W-01: 10:00 am - 2:00 pm SOCCA Critical Care Ultrasound Workshop					10:00 - 11:30 am	10:00 am - 12:00 pm
PBLD-SAT-03: STA: Open Hernia Repair: General Anesthesia, Spinal Anesthesia or Local Anesthesia? A Multi-Media Learning Discussion Including Simulation Training			PBLD-SAT-04: ASRA: Management of Neurologic Complication			Lunch Sessions 12:00 - 1:00 pm
	1:00 - 4:00 pm • Symposium Evidence-Based Decision-Making, Health Technology Assessment, & Knowledge Translation for Anesthesia and Perioperative Medicine (EBDM, HTA & KT)			1:00 - 3:00 pm Resident Panel! Changing Healthcare and its Demands: Prepare Yourself for the Future	1:00 - 2:30 pm	1:00 - 4:00 pm
W-02 • 2:15 - 5:00 pm SOCCA Perioperative ACLS Simulation Workshop				3:15 - 5:15 pm Resident Regional Ultrasound Workshop	2:30 - 4:00 pm 4:00 - 5:30 pm	2:00 - 5:30 pm
5:00 - 6:00 pm: Attendee Reception						5:00 - 6:00 pm
6:00 am - 5:00 pm: Registration						6:00 am - 5:00 pm
6:00 - 7:00 am: Continental Breakfast & Exhibits						6:00 - 7:00 am
					7:00 - 8:30 am	7:00 - 8:00 am
	8:00 - 11:00 am			7:30 - 8:30 am Resident Abstract Award Session		8:00 - 9:00 am
	International Science Symposium Inflammation and its Perioperative Implications			8:30 - 10:00 am Resident Contract Workshop Your Employment Contract – Things You Don't Want to Miss!	8:30 - 10:00 am	9:00 - 10:00 am
10:00 - 10:30 am: Break & Exhibits						10:00 - 10:30 am
					10:30 am - 12:00 pm	10:30 am - 12:30 pm
PBLD-SUN-03: Obesity and Perioperative Outcomes - Beyond the Obesity Paradox	PBLD-SUN-04: Perioperative Health IT: Impact on Revenue, Costs, Compliance, and Safety					Lunch Sessions 12:30 - 1:30 pm
W-03 • 1:30 - 4:30 pm Ultrasound, Simulation and Stimulation For Peripheral Nerve Blocks	1:30 - 4:30 pm Symposium Enhanced Surgical Recovery Program: The Role of the Anesthesiologist					1:30 - 3:00 pm 3:00 - 4:30 pm
6:00 am - 5:00 pm: Registration						6:00 am - 5:00 pm
6:00 - 7:00 am: Continental Breakfast & Exhibits						6:00 - 7:00 am
					7:00 - 8:30 am	7:00 - 10:00 am
W-04 • 8:30 am - 12:30 pm Advanced Ultrasound-Guided Nerve Block	7:00 - 10:00 am Symposium The Perioperative Surgical Home: How Can It Make the Case So Everyone Wins?					8:30 - 10:00 am
10:00 - 10:30 am: Break & Exhibits						10:00 - 10:30 am
					10:30 am - 12:00 pm	10:30 am - 12:30 pm
PBLD-MON-03: LICAGE - Liver Intensive Care Group of Europe	PBLD-MON-04: Establishing a Perioperative Ultrasound Curriculum: Pitfalls, Progress & Future Pathways	PBLD-MON-05: SCA - My Bleeding Heart: What is the Role of Factor Concentrates in the Management of Perioperative Bleeding?	PBLD-MON-06: 7-Year-old Down Syndrome Presenting for Emergency Post Tonsillo-Adenoidectomy Bleed		Lunch Sessions 12:30 - 1:30 pm	
W-05-1 • 1:00 - 3:00 pm In Vivo Workshop In Pigs				Abstract Award Session 1:30 - 3:30 pm	1:30 - 3:00 pm	2:00 - 5:00 pm
W-05-2 • 3:00 - 5:00 pm In Vivo Workshop In Pigs				1:30 - 2:30 pm • Best of Meeting 2:30 - 3:30 pm • Kosaka Session	3:00 - 4:30 pm	
6:00 am - 11:30 am: Registration						6:00 - 11:30 am
7:00 - 8:00 am: Continental Breakfast & Networking						7:00 - 8:00 am
PBLD-TUE-04: 7:00 - 8:00 am: SASM: Obesity, Sleep Apnea Symptomatology and Nasal Surgery: Where Do I Start?						7:00 - 8:00 am
						8:00 - 11:00 am

FOCUS ON CRITICAL CARE

SATURDAY, MAY 17

SUNDAY, MAY 18

MONDAY, MAY 19

TUESDAY, MAY 20

CALL FOR PAPERS

A&A CASE REPORTS

Lawrence J. Saidman, MD
Editor-in-Chief

Nancy A. Nussmeier, MD
Associate Editor-in-Chief

All submissions must conform to our Author Guidelines at edmgr.ovid.com/aa/accounts/ifauth.htm

Please submit your manuscript online at editorialmanager.com/aa/

For more information, contact editor@anesthesia-analgesia.org
415-777-2750

- *A&A Case Reports* is a new online journal dedicated to publishing **important clinical cases** related to anesthesiology, including perioperative medicine, critical care and pain management. As the clinical companion to the renowned peer-reviewed journal *Anesthesia & Analgesia*, *A&A Case Reports* is the specialty's **only journal** that publishes exclusively case reports.
- *A&A Case Reports* is interested in receiving submissions that make an **important teaching point** or **scientific observation** within the anesthesiology specialty or related fields. We are particularly interested in papers from **young investigators** who are beginning their careers and want to start their publishing records with a submission to our journal.



IARS

International Anesthesia Research Society

**New! 3-Part, 3-Level Comprehensive
Regional Ultrasound Guided Anesthesia Workshops
Offered for the First Time at the
IARS 2014 Annual Meeting in Montréal**

***Regional Ultrasound Guided Anesthesia Workshop Program:
Seeing and Stimulating is Believing!***

The IARS is proud to offer a comprehensive course of regional anesthesia that covers both electrical nerve localization along with ultrasound guidance: Seeing and stimulating is believing! This course has three components; the basic ultrasound workshop will cover the familiarization with ultrasounds and commonly performed regional anesthesia techniques. The Advanced Workshop will introduce more complex ultrasound-guided blocks in both the extremities and trunk. Finally, ultrasound and catheter technique positioning will be performed using live animals using ultrastanography and electrical stimulation in a dedicated animal lab.

Sunday, May 18

1:30 pm – 4:30 pm

Comprehensive Workshop Part I

**Ultrasound, Simulation and Stimulation
for Peripheral Nerve Blocks**

Monday, May 19

8:30 am – 12:30 pm

Comprehensive Workshop Part II

Advanced Ultrasound Guided Nerve Block

Monday, May 19

1:00 pm – 3:00 pm (class-1)

3:00 pm – 5:00 pm (class-2)

Comprehensive Workshop Part III*

In collaboration with McGill University

In Vivo Workshop In Pigs



**You still have time to
take advantage of this
great opportunity. Stop by
the Registration Desk today!
Seating is limited.**

Daily Schedule-At-A-Glance

6:00 am – 5:00 pm Registration

7:00 am – 10:00 am **Symposium**
The Perioperative Surgical Home: How Can It Make the Case So Everyone Wins?

7:00 am – 5:00 pm **Concurrent Sessions**

- Review Course Lectures
- Panels
- Workshops
- Moderated Poster Discussion Rounds

12:30 pm – 1:30 pm

Lunch Sessions

- Anesthesia & Analgesia Case Reports
- Problem-Based Learning Discussions (PBLD's)

1:30 pm – 3:30 pm

Abstract Awards Session

- Best of Meeting Awards
- Kosaka Awards

6:00 am – 2:00 pm Tabletop Exhibits

REVIEW COURSE LECTURES

RCL-13 • 7:00 am – 7:55 am

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

Presenter: Andrew D. Rosenberg, MD, *Professor of Anesthesiology and Dorothy Reaves Spatz MD Chair of the Department of Anesthesiology, 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-14 • 8:00 am – 8:55 am

DON'T MAKE THINGS WORSE WITH YOUR VENTILATOR SETTINGS!

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-15 • 9:00 am – 9:55 am

MISUNDERSTANDINGS IN NEUROANESTHESIA

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

7:00 am – 10:00 am

Symposium

The Perioperative Surgical Home: How Can It Make the Case So Everyone Wins?

Moderator

Thomas R. Vetter, MD, MPH

University of Alabama School of Medicine, Birmingham, Alabama

Presenters

- **The Specialty of Anesthesiology:
The Times They Are Indeed A-Changin'**

Thomas R. Miller, MBA, PhD, *Director of Health Policy Research, American Society of Anesthesiologists, Washington, DC*

Learner Objectives: After participating in this activity, the learner should be able to: (1) Establish the case that health care change is inevitable and identify the compelling reasons to embrace this change; (2) Determine how key health care industry trends and likely U.S. health care reform will impact the practice of anesthesiology; and (3) Debate the role of the Perioperative Surgical Home (PSH) and similar delivery models in strengthening the specialty of anesthesiology.

- **The Perioperative Surgical Home:
Coming to an Operating Theater Near You**

Zeev N. Kain, MD, MBA, *Professor and Chair, Anesthesiology, University of California, Irvine, Irvine, California*

Learner Objectives: After participating in this activity, the learner should be able to: (1) Define the full scope and major elements of prototypic comprehensive Perioperative Surgical Home (PSH) models; (2) Critique the principles and benefits of the Enhanced Recovery after Surgery guidelines and Fast Track Surgery, as part of the PSH; (3) Outline the operational aspects of implementing the PSH; and (4) Compare and contrast the perspectives of the anesthesiologist, surgeon, and hospitalist on the perioperative continuum of care.

- **Validating the Perioperative Surgical Home: Okay, Now Show Me the Evidence!**

Thomas R. Vetter, MD, MPH, *Maurice S. Albin Professor of Anesthesiology and Vice Chair Director, Division of Pain Medicine Medical Director, UAB Preoperative Assessment, Consultation and Treatment Clinic*

Professor of Gerontology, Geriatrics, and Palliative Care, Professor of Pediatrics, University of Alabama at Birmingham School of Medicine Professor of Health Care Organization and Policy, University of Alabama at Birmingham School of Public Health, Birmingham, Alabama

Learner Objectives: After participating in this activity, the learner should be able to: (1) Analyze the health services and outcomes research designs applicable to the Perioperative Surgical Home (PSH); and (2) Discuss the principles and increasing importance of implementations.

- **The New Healthcare Economics:
No Outcome, No Income**

Mike Schweitzer, MD, MBA, *Vice President, VHA Southeast, Tampa, Florida*

Learner Objectives: After participating in this activity, the learner should be able to: (1) Define the Triple Aim of healthcare and the ability of the Perioperative Surgical Home (PSH) to help achieve it; (2) Assess the PSH as a means to succeed in a more competitive and austere economic environment; and (3) Outline how the PSH can meet increasing consumer and payer emphasis on shared decision-making, patient-centeredness, and patient satisfaction.

- **The Metrics of Perioperative Surgical Home
Success: How to Turn Your Data into Dollars**

Richard P. Dutton, MD, MBA, *Executive Director, Anesthesia Quality Institute, Park Ridge, Illinois*

Learner Objectives: After participating in this activity, the learner should be able to: (1) Identify those data elements, readily available to any anesthesia practice, which will demonstrate the economic value of the Perioperative Surgical Home (PSH) model; (2) Develop methods for reporting PSH outcomes that are intuitive and useful; and (3) Integrate locally collected PSH measures with national benchmarks for similar cases and patients, as a means of demonstrating the added value of the PSH.

RCL-16 • 10:30 am – 11:25 am

THE LINK BETWEEN ACUTE AND CHRONIC PAIN

Presenter: James P. Rathmell, MD, *Executive Vice Chair and 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 post-surgical pain; and (4) Discuss the concept of “preventative analgesia” and the best means currently available to use this approach in clinical practice.

RCL-17 • 11:30 am – 12:25 pm

SIZE MATTERS: PERIOPERATIVE MANAGEMENT OF THE MORBIDLY OBESE

Presenter: Frances Chung, MBBS, FRCPC, *Professor of Anesthesiology, University of Toronto, Medical Director, Combined Surgical Unit, Ambulatory Surgical Unit, University Health Network, Toronto, Ontario, Canada, President, Society of Anesthesia and Sleep Medicine (SASM)*

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-18 • 1:30 pm - 2:25 pm

CAN ANY PATIENT BE AN OUTPATIENT: PATIENT SELECTION FOR AMBULATORY SURGERY

Girish P. Joshi, MB, BS, MD, FFARCSI, *Professor of Anesthesiology and Pain Management, University of Texas Southwestern Medical School, Director of Perioperative Medicine and Ambulatory Anesthesia at Parkland Health and Hospital Systems, Dallas, Texas*

RCL-19 • 2:30 - 3:25 pm

PRACTICAL PEDIATRIC ANESTHESIA

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*

PANELS



P-14 • 7:00 am – 8:30 am

PROMOTING PATIENT SAFETY: STRATEGIES TO REDUCE ANESTHETIC RISK IN CHILDREN

Moderator: Shoba V. Malviya, MD, *Professor of Anesthesiology, Pediatric Anesthesiology, University of Michigan Health System, Ann Arbor, Michigan*

Panelists:

■ Handoffs and Checklists

Eugenie S. Heitmiller, MD, *Professor, Anesthesiology and Critical Care Medicine and Pediatrics, Clinical Director, Pediatric Anesthesiology, Johns Hopkins Children’s Center, John Hopkins University School of Medicine, Baltimore, Maryland*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify specific strategies for improving handoff communication; (2) Evaluate the effectiveness of checklists in reducing risks associated with handoffs; (3) Name one suggestion for improving checklist implementation at his/her own institution.

P-14 • continued

■ Communication and its Role in Patient Safety

Nancy L. Glass, MD, *Director, Chronic and Palliative Pain Service - Texas Children’s Hospital, Professor, Pediatrics and Anesthesiology, Baylor College of Medicine, Texas Children’s Hospital, Houston, Texas*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the impact of difficult professional interactions on the incidence of, and recovery from, adverse perioperative events; (2) Explain why effective communications promote a safe perioperative environment and enhance patient safety; and (3) Relate examples of communications that “lower the heat” and those that escalate tensions during a difficult case.

■ Role of Simulation and Team Training in Advancing Patient Safety

James J. Fehr, MD, *Pediatric Anesthesiology and Critical Care, Associate Professor of Anesthesiology and Pediatrics, Washington University, Director, Saigh Pediatric Simulation Center, St. Louis Children’s Hospital, St. Louis, Missouri*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Name the necessary components and challenges of implementation of an effective team training program; (2) Describe team training interventions and tools currently available for improvement of team performance in perioperative care; and (3) Design a simple team training exercise for his / her own operating environment.



P-15 • 8:30 am – 10:00 am
FLUID RESUSCITATION FOR THE TRAUMA PATIENT

Moderator: 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*

Panelists:

■ **Fluid Resuscitation for the Trauma Patient: Crystalloids or Colloids?**

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

■ **Fluid Resuscitation for the Trauma Patient: Effect on Inflammation and Coagulation**

Albert Pierce, II, MD, *Associate Professor of Anesthesiology, University of Alabama at Birmingham, Birmingham, Alabama*

■ **Fluid Resuscitation for the Trauma Patient: The Case of the Patient with Traumatic Brain Injury**

Tomoki Hashimoto, MD, *Professor, Department of Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California*

Learner Objectives: After participating in this activity, the learner will be able to discuss and identify current practices in fluid resuscitation for the trauma patient.



P-16 • 8:30 am – 10:00 am
PERI-OPERATIVE SLEEP

Moderator: David Hillman, MBBS, FANZCA, FRCP(Edin), FRACP(Hon), *Clinical Professor, Head, Department of Pulmonary Physiology and Sleep Medicine Director, West Australian Sleep Disorders Research Institute, Sir Charles Gairdner Hospital, Perth, Australia; Immediate Past President, Society of Anesthesia and Sleep Medicine (SASM)*

Panelists:

■ **The Effects of Surgery and Anesthesia on Sleep Architecture**

Frances Chung, MBBS, FRCP, Professor of Anesthesiology, University of Toronto, Medical Director, Combined Surgical Unit, Ambulatory Surgical Unit, University Health Network, Toronto, Ontario, Canada; President, Society of Anesthesia and Sleep Medicine (SASM)

Learner Objectives: After participating in this activity, the learner will be able to: (1) Discuss the architecture of sleep including normal duration, efficiency, and stages; (2) Learn how this normal architecture is disturbed by anesthesia, surgery and pain; and (3) Know how this architecture changes with time and treatment during the early postoperative period.

P-16 • continued

■ **Obesity, Sleep and Breathing: Perioperative Implications**

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

Learner Objectives: After participating in this activity, the learner will be able to: (1) Learn about the effects of obesity on upper airway function, ventilation and gas exchange; (2) Discuss how these functions are affected by sleep, anesthesia and analgesia; and (3) Implement strategies to circumvent or treat these problems.

■ **Perioperative Pain and Sleep**

Anthony Doufas, MD, *Associate Professor, Stanford University Medical School, Stanford, California*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Learn about the effects of pain on sleep; (2) Discuss the exacerbating effects of disturbed sleep on pain; (3) Consider the effects of opioid analgesics on sleep and sleep related breathing disturbances; and (4) Devise analgesic strategies to circumvent these problems.

■ **Sleep Disordered Breathing and Postoperative Delirium**

Mervyn Maze, MD, ChB, FRCP, FRCA, FMedSci, *William K. Hamilton Distinguished Professor of Anesthesiology; Professor and Chair, Department of Anesthesia and Perioperative Care, UCSF School of Medicine, San Francisco, California*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Learn about the effects of disturbed sleep on cognition; (2) Discuss how preoperative and postoperative sleep disturbances may predispose to postoperative delirium; and (3) Implement strategies to treat of circumvent these problems.



P-17 • 10:30 am – 12:00 pm

AUTOMATION, ROBOTICS AND THE INFLUENCE OF THE LATEST TECHNOLOGIES ON ANESTHESIA CARE PROVIDERS

Moderator: Thomas M. Hemmerling, MD, DEAA

Panelists:

■ **New Mobile OR Tools and Technologies for Mobile Anesthesia Providers**

Brian Rothman, MD, *Assistant Professor, Department of Anesthesiology, Medical Director I for Perioperative Informatics, Vanderbilt University, Nashville, Tennessee*

■ **Automated Fluid Management – Where Do We Come From and Where Are We Going!**

Maxime Cannesson, MD, PhD, *Professor of Anesthesiology, Department of Anesthesiology and Perioperative Care, University of California - Irvine, Irvine, California, Section Editor for Technology Monitoring and Computing, Anesthesia & Analgesia*

■ **Automated Anesthesia Delivery - An Update for the Clinician: Things to Come Soon to Your Bedside**

Ngai Liu, MD, *Hôpital FOCH, Suresnes Cedex, France*

■ **Robotics, Decision Support and Telemedical Applications for Anesthesia: Will We Be Replaced?**

Thomas M. Hemmerling, MD, DEAA, *Associate Professor, Department of Anesthesia, McGill University, MUHC, Institute of Biomedical engineering, Université de Montréal, Director, ITAG Laboratory, Associate Director, Arnold and Blema Steinberg Medical Simulation Centre, Montréal General Hospital, Montréal, Canada*

PANELS – continued

P-18 • 10:30 am – 12:00 pm

TRANSLATIONAL NEUROSCIENCE PANEL

Moderator: Emery N. Brown, MD, PhD, *Warren M. Zapol Professor of Anesthesia Harvard Medical School Department of Anesthesia, Critical Care and Pain Medicine Massachusetts General Hospital*

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

Panelists:

■ Cortical Mechanisms of Loss and Recovery of Consciousness: Insight TMS/EEG Studies

Marcelo Massimini, MD, PhD, *Professor Neurophysiology at the University of Milan, Department of Biomedical and Clinical Sciences, University of Milan, Milan, Italy*

■ Electroencephalogram Monitoring of General Anesthesia and Sedation: From Neurophysiology to Clinical Practice

Patrick L. Purdon, PhD, *Assistant Professor of Anaesthesia, Harvard Medical School, Assistant Bioengineer, Massachusetts General Hospital Department of Anesthesia, Boston, Massachusetts*

■ Activating Arousal Pathways to Induce Reanimation from General Anesthesia

Ken Solt, MD, *Assistant Professor, Harvard Medical School, Assistant Anesthetist, Massachusetts General Hospital, Boston, Massachusetts*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Review the arousal pathways in the brain; (2) Review evidence that arousal pathways are important for emergence from general anesthesia; (3) Review evidence that arousal pathways may be activated to induce reanimation from general anesthesia.



P-19 • 1:30 pm – 3:00 pm

DO YOU KNOW YOUR ANESTHETIC? THE ART AND SCIENCE OF CLINICAL PHARMACOLOGY

Moderator: Ken B. Johnson, MD

Panelists:

■ Beyond Half-Life and MAC: Core Practical Principles of Pharmacokinetics and Pharmacodynamics

Tom C. Krejcie, MD, *Professor and Associate Chair for Medical Technology, Department of Anesthesiology, Northwestern University Feinberg School of Medicine Associate Chief Medical Officer*

■ Understanding Anesthetic Drug Interactions

Mohamed Naguib, MD, *Professor, Anesthesiology, Cleveland Clinic*

■ Implications of Obesity on the Clinical Pharmacology of Anesthetic Drugs

Ken B. Johnson, MD, *Professor, Anesthesiology, University of Utah, Associate Editor: Anesthesia & Analgesia*

P-20 • 1:30 pm – 3:00 pm

DOES ANESTHESIA DAMAGE THE BRAIN? THE SCIENCE BEHIND IT ALL

Moderator: Gwendolyn Boyd, MD, *Professor, Anesthesiology, The University of Alabama at Birmingham, Birmingham, Alabama*

Panelists:

■ Pro – Anesthesia Does Damage the Brain?

Jeffrey H. Silverstein, MD, MS, AGSF, *Professor, Vice-Chair, Research, Mount Sinai School of Medicine, New York, New York*

Learner Objectives: After participating in this activity, the learner should be able to: (1) Discuss the current evidence and controversy regarding the potential of anesthetic agents to adversely alter the human central nervous system; (2) Describe the types and nature of cognitive alterations following surgery; (3) Assess how anesthesiology must engage with elderly patients to assist their understanding of cognitive risk; (4) Explain how to establish and utilize cognitive assessment tools in perioperative evaluations; and (5) Analyze the literature on anesthetic choice as a mediator of outcomes.

■ Con – Anesthesia Does Not Damage the Brain

Terri Monk, MD, *Professor, Department of Anesthesiology and Perioperative Medicine University of Missouri, Columbia, Missouri*

Learner Objectives: After participating in this activity, the learner should be able to: (1) Describe the types of cognitive disorders that occur after surgery; (2) Identify risk factors that may predispose patients to postoperative cognitive problems; and (3) Discuss the clinical evidence suggesting that the patient's preoperative cognitive and physical status, not the anesthetic management, are the major risk factors for postoperative cognitive problems.

■ Role of Anesthetics in Neuroinflammation After Surgery

Zhiyi Zuo, MD, MS, PhD, *Robert Epstein Professor, University of Virginia, Charlottesville, Virginia*

Learner Objectives: After participating in this activity, the learner should be able to: (1) Describe the latest theory on the mechanisms for POCD; (2) Analyze the effects of anesthetics on neuroinflammation and the mechanisms for these effects; and (3) Reveal the complexity of anesthetic effects on neuroinflammation.

■ The Use of Antipsychotics in the Management of Postoperative Delirium

Shamsuddin Akhtar, MD, *Associate Professor, Yale University School of Medicine, New Haven, Connecticut*

Learner Objectives: After participating in this activity, the learner should be able to: (1) Discuss the current knowledge regarding the pharmacological basis of delirium; (2) Identify the current recommendations and trends on the use of antipsychotics in the management of post-operative delirium; (3) Describe the specific pharmacology and side effects of anti-psychotics; and (4) Discuss the indications/contraindications for benzodiazepines used for sedation in the elderly patient population.

1:30 – 3:30 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 2014 Annual Meeting. A panel of expert judges will award the following top honors:

1:30 – 2:30 pm

Best of Meeting Awards

Judges

Moderator: 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

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

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

- Supported by the IARS, the best abstract presentation in patient-oriented research – \$1,000 award
- Best abstract presentation in basic science research – \$1,000 award



IARS

International Anesthesia Research Society

Supported 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.



2:30 pm – 3:30 pm

Kosaka Awards

Judges

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

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

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

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.



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International Anesthesia Research Society



PANELS – continued

P-21 • 3:00 pm – 4:30 pm

LONG TERM OUTCOMES AFTER NONCARDIAC SURGERY

Moderator: Wilton A. van Klei, MD, PhD

Panelists:

W. Scott Beattie, MD, PhD, FRCPC, Professor, Department of Anesthesia, Faculty of Medicine, University of Toronto, R. Fraser Elliott Chair in Cardiac Anesthesia, Deputy Anesthesiologist-in-Chief, Director of Clinical Research, Toronto General Hospital, University Health Network, Toronto, Ontario, Canada

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe incidence, type, and timing of the occurrence of postoperative stroke; (2) Describe relationship between patient characteristics, use of beta-blockers and postoperative stroke; and (3) Describe relationship between perioperative events such as low blood pressure and postoperative stroke.

Wilton A. van Klei, MD, PhD, Department Head, Associate Professor, Department of Anesthesiology, University Medical Center Utrecht, Utrecht, Netherlands

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe incidence and signs/symptoms of postoperative MI; (2) Describe relationships between perioperative events and postoperative MI; (3) Describe role of pre and postoperative biomarkers in identification of patients at risk for postoperative MI; and (4) Usefulness of routine postoperative biomarkers testing in detection of postoperative MI.

Peter Nagele, MD, Assistant Professor, Anesthesiology, Washington University School of Medicine, St. Louis, Missouri

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe incidence of postoperative mortality; (2) Describe different biomarkers to predict postoperative mortality (both early and late up to 3 years); and (3) Describe important differences between biomarkers in prediction of postoperative mortality.

P-22 • 3:00 pm – 4:30 pm



ASA BLOOD GUIDELINES

Moderator: **Gregory A. Nuttall, MD**, Anesthesiology Department, Mayo Clinic, Rochester, Minnesota

PROBLEM-BASED LEARNING DISCUSSIONS – 12:30 – 1:30 pm



PBLD-MON-01

NEONATE, CAN'T VENTILATE: LET ME COUNT THE WAYS, IN A CHILD WITH TEF

Moderator: **Bishr Haydar, MD**, Assistant Professor, Department of Anesthesiology, University of Michigan, Ann Arbor, Michigan

This PBLD is a simplified version of a one day-old 2800 g infant with suspected tracheoesophageal fistula (TEF) with long-gap esophageal atresia (EA) who presented for rigid bronchoscopy, TEF ligation and attempted EA repair. The PBLD is aimed toward anesthesiologists who infrequently take care of children.

Learner Objectives: After participating in this activity, the learner will be able to: (1) Establish the common pitfalls and challenges in anesthetizing a neonate, focusing on ventilation and monitoring thereof; (2) Illustrate the anesthetic implications of TEF, including types; associated co-morbidities; phenotypic signs of associated co-morbidities; and anesthetic principles; (3) Evaluate and contrast the anesthetic options for rigid bronchoscopy in the neonate; (4) Differentiate common and uncommon causes of intraoperative decreased pulmonary compliance in this patient, and discuss diagnostic and therapeutic maneuvers for: a) Gastric insufflation due to mask ventilation and management strategies in a patient with TEF; b) Occluded endotracheal tube (ETT) due to blood and secretions; timing and management; c) Pneumothorax; common cause, timing and management; d) ETT malposition and complete occlusion by entry to newly-ligated fistula; and (5) Review extubation criteria and decision making for neonates, focusing on the relative risk and benefits of extubating neonates following TEF repair.



PBLD-MON-02

SURGERY IN THE PREGNANT OR BREASTFEEDING PATIENT

Moderators:

Brendan Carvalho, MBBCh, FRCA, MDCH, Associate Professor, Department of Anesthesiology, Stanford University Medical Center, Stanford, California

Ellen Moseley Lockhart, MD, Associate Professor and Vice Chairman, Anesthesiology Department, Washington University School of Medicine, St. Louis, Missouri

Learner Objectives: After participating in this activity, the learner will be able to: (1) List normal alterations in maternal physiology during pregnancy; (2) Identify the potential fetal effects from anesthesia and surgery and the importance of uteroplacental perfusion and fetal oxygenation; (3) Appreciate practical anesthetic considerations (including timing of surgery, fetal monitoring, full stomach precautions, left uterine displacement); and (4) Discuss therapeutic principals to minimize analgesic drug exposure in breastfeeding infants.



Liver Intensive Care
Group of Europe

PBLD-MON-03

LIVER INTENSIVE CARE GROUP OF EUROPE

Moderator: Susan Mandell, MD, PhD,
*Professor of Anesthesiology, School of Medicine,
Department of Anesthesiology, University of Colorado,
Aurora, Colorado*

PBLD-MON-04

**ESTABLISHING A PERIOPERATIVE ULTRASOUND CURRICULUM:
PITFALLS, PROGRESS AND FUTURE PATHWAYS**

Moderators:

Oksana Klimkina, MD, *Associate Professor of Anesthesiology,
University of Kentucky, College of Medicine, Lexington, Kentucky*

Annette Rebel, MD, *Associate Professor of Anesthesiology, University
of Kentucky, College of Medicine, Lexington, Kentucky*

Jeremy S. Dority, MD, *Assistant Professor of Anesthesiology, University
of Kentucky, College of Medicine, Lexington, Kentucky*

Amy DiLorenzo, MA, *Education Specialist, Senior Lecturer,
University of Kentucky Chandler Medical Center, Department of
Anesthesiology, Lexington, Kentucky*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the value of applying knowledge of ultrasound in anesthesia practice; (2) Describe strategies to provide a required ultrasound curriculum within an anesthesiology residency training program; and (3) Identify common challenges and pitfalls during development and implementation with pathways for resolution.



PBLD-MON-05

**MY BLEEDING HEART: WHAT IS THE ROLE OF
FACTOR CONCENTRATES IN THE MANAGEMENT OF
PERIOPERATIVE BLEEDING?**

Moderator: Alan C. Finley, MD, *Assistant Professor, Anesthesia
and Perioperative Medicine, Medical University of South Carolina,
Charleston, South Carolina*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Explain the hemostatic effects of Prothrombin Complex Concentrate (PCC) in the bleeding patient; (2) Identify the difference between 3-Factor vs. 4-Factor PCC; (3) Discuss a practical approach to the use of Factor VIIa; and (4) Describe the hemostatic role of fibrinogen concentrate in the bleeding patient.

PBLD-MON-06

**7-YEAR-OLD DOWN SYNDROME PRESENTING FOR EMERGENCY
POST TONSILLO-ADENOIDECTOMY BLEED**

Moderator: Courtney A. Hardy, MD, FAAP, *Associate Professor of
Pediatric Anesthesiology, Director Pediatric Cardiovascular Anesthesia,
Director Pediatric Anesthesia Fellowship Program, Ann & Robert H.
Lurie Children's Hospital of Chicago, Chicago, Illinois*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify common pediatric arrhythmias in the pediatric population; (2) Treat common pediatric arrhythmias intraoperatively; and (3) Learn when to consult a pediatric cardiologist for further evaluation.

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WORKSHOPS

W-04 • 8:30 am – 12:30 pm

ADVANCED ULTRASOUND-GUIDED NERVE BLOCK*

Workshop Leader: Vincent W.S. Chan, MD, FRCPC

Workshop Participants:

■ **Neuraxial Space and Lumbar Plexus**

Colin McCartney, MBChB, FRCA, FCARCSI, FRCPC,
*Professor, Department of Anesthesia, University of Toronto,
Toronto, Ontario, Canada*

■ **Thoracic Paravertebral Space and PEC Block**

Silvia Wilson, MD, *Assistant Professor, Anesthesia and Perioperative
Medicine, Medical University of South Carolina, Charleston, South
Carolina*

■ **Sciatic Nerve (Proximal Approaches)**

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

■ **Abdominal Wall and Trunk + Peripheral Nerves**

De Tran, MD, *Associate Professor, Department of Anesthesia,
Montreal General Hospital, Montreal, Quebec, Canada*

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.

**This workshop is offered as a stand-alone course and also a segment of the three-part comprehensive regional anesthesia course which includes the Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks and the In Vivo Workshop in Pigs.*

W-05-01 • 1:00 pm – 3:00 pm (class-1)

W-05-02 • 3:00 pm – 5:00 pm (class-2)

IN VIVO WORKSHOP IN PIGS

IN COLLABORATION WITH MCGILL UNIVERSITY

Workshop Leader: **Juan Francisco Asenjo, MD,** *Associate Professor of Anesthesia and Pain Medicine, Montréal General Hospital, McGill University Health Centre, Montréal, Quebec, Canada*

Featured as the third part of the Regional Ultrasound Guided Anesthesia Workshop Program offered along with the basic and advanced workshops in human models.

This in vivo workshop in pigs at the large animal operating room at the Montreal General Hospital Research Institute, McGill University, will focus on hands-on practice of catheter placement with electrostimulation and ultrasound guidance.

This workshop is limited to a small number of participants to allow for maximum interaction with hands-on.

Learner Objectives: After participating in this activity, the learner will be able to: (1) Identify with ultrasound guidance and nerve stimulation the anatomical structures required block for the following nerves: brachial plexus at different levels, the lumbar plexus, the sciatic nerve at different locations, the intercostal anatomy and nerves, the TAP block, the paravertebral anatomy and structures.

In order to obtain best learning results, it is suggested to take the full Regional Ultrasound Guided Anesthesia Workshop Program.

Note: This workshop is offered as a stand-alone course and also a segment of the three-part comprehensive regional anesthesia course which includes the Ultrasound, Simulation and Stimulation for Peripheral Nerve Blocks and the Advanced Ultrasound-Guided Nerve Block.

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Instructions for submitting an abstract will be available on the IARS website following the IARS 2014 Annual Meeting. Check back and make sure you don't miss this great opportunity!

Daily Schedule-At-A-Glance

- 6:00 – 11:30 am **Registration**
- 7:00 – 8:00 am **Problem-Based Learning Discussions (PBLD's)**
- 8:00 – 11:00 am **Concurrent Sessions**
- Review Course Lectures
 - Panels

REVIEW COURSE LECTURES

RCL-21 • 8:00 am - 8:55 am

OBSTETRIC HEMORRHAGE – THE RIGHT RESPONSE AT THE RIGHT TIME

Presenter: *Cynthia 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 United States and throughout the world. (2) Explain the role of obstetric hemorrhage protocols and blood banking strategies to prepare for anticipated and unanticipated obstetric hemorrhage; and (3) Discuss the role of recombinant factor VIIa, cell salvage, and fibrinogen replacement in the management of obstetric hemorrhage.

RCL-22 • 10:00 am – 10:55 am

ANESTHETICS AND INFLAMMATION: A PERFECT STORM FOR LONG-TERM MEMORY LOSS

Presenter: *Beverley A. Orser, MD, PhD, FRCPC, Fellow, Canadian Academy of Health Sciences, Canada Research Chair in Anesthesia, Professor of Anesthesia and Physiology, University of Toronto, Toronto, Ontario, Canada*

PANELS



P-23 • 8:00 am – 9:30 am

MANAGEMENT OF AIRWAY DILEMMAS

Moderator: *Maya S. Suresh, MD, Baylor College of Medicine, Houston, Texas*

- **Update on Application of New ASA Guidelines on Difficult Airway Management**
William Rosenblatt MD, Professor of Anesthesiology and of Surgery (Otolaryngology); Director, Anesthesia for otolaryngology; Yale School of Medicine, New Haven, Connecticut, REMEDY President and Founder, Past President of SAM
- **Management of Difficult Airway Outside the OR/Remote Locations**
Irene P. Osborn, MD, Associate Clinical Professor Anesthesiology, Associate Professor Neurosurgery, Mount Sinai Hospital, Mount Sinai, New York
- **Failed Airway in Obstetrics: Avoiding Airway Catastrophes**
Maya S. Suresh, MD, Professor and Chairman, Baylor College of Medicine, Chief of Anesthesiology, Ben Taub General Hospital, Houston, Texas, Past President of SOAP, Past President of SAM
- **Extubation of the Difficult Airway**
Richard M. Cooper, BSc, MSc, MD, FRCPC, Professor, Department of Anesthesia, University of Toronto; Director, Anesthesia Airway Fellowship, Toronto General Hospital, Toronto, Ontario, Canada; President, SAM

Learner Objectives: After participating in this activity, the learner will be able to: (1) Received an introduction on ASA Closed Claim Studies and highlight airway issues related to intubation, extubation and emergence; (2) Reviewed the recurring airway related themes shown in the UK Fourth National Audit Project that have resulted in adverse outcomes; (3) Reviewed an airway-related case; (4) Discussed different strategies to successfully manage airway issues encountered during intubation; (5) Discussed strategies to manage cannot intubate – cannot ventilate situations; and (6) Identified risk factors leading up to airway related mortality following emergence from anesthesia and successful management to avoid morbidity and mortality.

PANELS – continued



P-24 • 9:30 am – 11:00 am

**NEURAXIAL LABOR ANALGESIA:
TRICKS OF THE TRADE**

Moderator: **Brendan Carvalho, MBBCh, FRCA, MDCH**, *Chief of Obstetric Anesthesia and Associate MCL Professor in the Department of Anesthesiology, Stanford University Medical Center, Stanford California*

Panelists:

■ **Obstetric and Neonatal Effects of Neuraxial Analgesia**

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

■ **Techniques and Drugs to Optimize Labor Analgesia**

Brendan Carvalho, MBBCh, FRCA, MDCH, *Chief of Obstetric Anesthesia and Associate MCL Professor in the Department of Anesthesiology, Stanford University Medical Center, Stanford, California*

■ **Troubleshooting the Poorly Functioning Epidural Catheter**

Anne Lavoie, MD, FRCPC, *Assistant Clinical Professor, Centre Hospitalier Universitaire de l'Université de Montréal (CHUM), Montreal, Quebec, Canada*

Learner Objectives: After participating in this activity, the learner will be able to: (1) Describe the effects (positive, negative, and nonexistent) of neuraxial labor analgesia on obstetric outcomes such as the progress of labor, mode of delivery, fetal bradycardia, maternal fever and breastfeeding; (2) Select techniques and drugs to optimize neuraxial labor analgesia, including combined spina-epidural (CSE) analgesia, patient controlled epidural analgesia (PCEA) and use of ultrasonography for initiation of analgesia; and (3) Explain why some blocks fail and recommend techniques to prevent block failure and rescue inadequate analgesia, including catheter design, dose/volume ratios, and rescue drugs (e.g., clonidine).

PROBLEM-BASED

LEARNING DISCUSSIONS – 7:00 – 8:00 am

PBLD-TUE-01

PEDIATRIC AIRWAY DIFFICULTIES

Moderator: **Narasimhan Jagannathan, MD**, *Attending Physician, Anesthesiology, Ann & Robert H. Lurie Children's Hospital of Chicago, Assistant Professor of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois*

PBLD-TUE-2

THE DAY-SURGERY SPINE CASE WITH DIFFICULT AIRWAY AND CHRONIC OPIOID USE: HOW DO WE MAKE IT HAPPEN?

Moderator: **Juan Francisco Asenjo, MD**, *Associate, Professor of Anesthesia and Pain Medicine, Montreal, General Hospital, McGill University Health Centre, Montreal, (Quebec) Canada*

Learner Objectives: After participating in this activity the learner will be able to: (1) Discuss the challenges faced to accomplish the objectives of sending home a complex patient in a complex surgery; (2) Identify clinical pathways in day-surgery spine procedures; and (3) Discuss innovative options to deal with patients on chronic opioids requiring this type of operation.

PBLD-TUE-3

STRATEGIES TO IMPROVE QUALITY OF RECOVER AFTER SURGERY: NEW PARADIGMS

Moderator: **Gildasio S. De Oliveira Jr. MD, MSCI**, *Associate Chair for Research, Department of Anesthesiology, Feinberg School of Medicine, Chicago, Illinois, Editor-in-Chief, Journal of Ambulatory Anesthesia*

Learner Objectives: After participating in this activity the learner will be able to: (1) Identify factors that affect patient quality of recovery in the inpatient setting; (2) Identify factors that alter patient quality of recovery in the outpatient setting; (3) Identify potential interactions among recovery factors; (4) Define what is a clinically significant outcomes in the acute recovery period; (5) Recognize advantages and disadvantages of the most commonly used instruments to measure quality of recovery; (6) Recognize current pharmacological interventions that improve quality of recovery; (7) Identify regional anesthesia techniques that lead to better postsurgical recovery; and (8) Recognize interventions that are commonly used by anesthesia providers but that do not necessarily improve patient recovery.

PBLD-TUE-4

OBESITY, SLEEP APNEA SYMPTOMATOLOGY AND NASAL SURGERY: WHERE DO I START?

Moderator: **David Hillman MBBS, FANZCA, FRCP (Edin), FRACP (Hon)**, *Clinical Professor, Head, Department of Pulmonary Physiology and Sleep Medicine Director, West Australian Sleep Disorders Research Institute, Sir Charles Gairdner Hospital, Perth Australia, Immediate past president of the Society of Anesthesia and Sleep Medicine (SASM)*

Learner Objectives: At the end of this session, the learner will be able to: (1) Discuss preoperative assessment for obstructive sleep apnea; (2) Define place of clinical screening tests for obstructive sleep apnea; (3) Determine the place for simple versus complex (polysomnography) sleep studies; (4) Identify the shared characteristics of sleep and anesthesia, particularly in regard to airway collapsibility and conscious state; (5) Determine optimal perioperative management including place of non-invasive positive airway pressure therapies (CPAP and bi-level ventilation).

Moderated Poster Discussion Rounds

Saturday, May 17

10:00 am – 5:30 pm

Sunday, May 18

7:00 am – 4:30 pm

Monday, May 19

7:00 am – 4:30 pm

Moderated Poster Discussion Rounds • Saturday, May 17

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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.

Challenging Case Reports – 1

Abstracts in Poster Discussion Rounds: CC-1 – CC-9

Presenters in Attendance: 10:00 am – 11:30 am

PR01-01

Poster Moderator: D. Bustamante, MD, *University of Tennessee, Knoxville, Tennessee*

CC-1 SELECTIVE INTRABRONCHIAL INSUFFLATION THROUGH THE ENDOTRACHEAL TUBE: CHALLENGING CASE REPORT

S. Haider¹, A. Sinofsky¹, O. Ahmed², J. Roccaforte¹

¹Anesthesia and Surgical Critical Care, New York University School of Medicine, New York, New York, ²Otolaryngology, New York University School of Medicine, New York, New York

CC-2 A COMPLETE LEFT BRONCHUS OCCLUSION BY MUCOUS PLUG MIMICKING TENSION PNEUMOTHORAX

A. M. Mohiuddin, A. Chiricolo, S. Cohen, S. Berman, D. Ramos, S. S. Mungekar, C. W. Hunter

Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Jersey

CC-3 PROLONGED COCAINE TOXICITY AFTER INTRANASAL TOPICAL APPLICATION

B. Maslin, A. Alian

Anesthesiology, Yale University, New Haven, Connecticut

CC-4 ANESTHETIC MANAGEMENT OF CONGENITAL MYOTONIC DYSTROPHY (CMD): A 14-YEARS-OLD FEMALE WITH CMD FOR EXTENSIVE INTRA-ABDOMINAL PROCEDURE: CHALLENGING CASE REPORT, HUMAN

M. Nagoshi, S. E. Chen

Department of Anesthesiology, Children's Hospital Los Angeles, Los Angeles, California

CC-5 INTRA-OPERATIVE MANAGEMENT OF A LARGE VASCULAR RETROPERITONEAL CARCINOID TUMOR

R. H. modi, G. Zhu, T. O'barr, P. Roffey, D. Thangathurai

Anesthesiology, LAC-USC Medical Center, Los Angeles, California

CC-6 EISENMENGER'S SYNDROME AND PREGNANCY

S. Syed¹, S. Syed², S. Cohen³, A. Mohiuddin³, A. Razvi⁴, A. Sakr⁵

¹Anesthesiology, ZMAR LLC, Sugarland, Texas, ²Science, Houston Baptist University, Houston, Texas, ³Anesthesiology, Rutgers Medical School-Robert Wood Johnson Hospital, New Brunswick, New Jersey, ⁴Infomatics, ZMAR LLC, Sugarland, Texas, ⁵ Anesthesiology, Rutgers University, RWJMS, New Brunswick, New Jersey

CC-7 SIMPLY MODIFIED PERCUTANEOUS TRACHEOSTOMY BY ONE OPERATOR AND ONE NURSE

S. Park¹, W. Chung¹

¹Anesthesiology and Pain Medicine, Chungnam National University Hospital, Daejeon, Korea, Republic of Korea

CC-8 GENERAL ANESTHESIA FOR THE HEAVIEST LIVING MAN IN THE WORLD

A. S. Terkawi¹, M. Rafiq², M. E. Durieux¹, R. Algadaan², K. S. Doais², M. A. AlSohaibani²

¹Anesthesiology, University of Virginia, Charlottesville, Virginia,

²Anesthesiology, King Fahad Medical City, Riyadh, Saudi Arabia

CC-9 DIAGNOSIS & MANAGEMENT OF INCIDENTAL AORTIC DISSECTION DURING BILATERAL LUNG TRANSPLANTATION WITH CARDIOPULMONARY BYPASS

M. R. Mathis, M. D. Caldwell

Anesthesiology, University of Michigan, Ann Arbor, Michigan

Critical Care, Trauma and Resuscitation 1

Abstracts in Poster Discussion Rounds: S-80 – S-86

Presenters in Attendance: 10:00 am - 11:30 am

PR01-02

Poster Moderator: M. Wall, MD, FCCM, *University of Minnesota, Minneapolis, Minnesota*

S-80 THE AGE OF TRANSFUSED BLOOD PREDICTS HEMATOCRIT CHANGE IN PATIENTS WHO HAVE UNDERGONE ELECTIVE HIP OR KNEE ARTHROPLASTY

V. Petrov-Kondratov¹, M. Fung², C. Greene³

¹Anesthesiology, University of Texas Southwestern Medical Center, Dallas, Texas, ²Pathology, Fletcher Allen Health Care, Burlington, Vermont, ³Anesthesiology, Fletcher Allen Health Care, Burlington, Vermont

S-81 BLOOD RECOVERY FROM VACUUM-ASSISTED WOUND CLOSURE DEVICES

G. Konig¹, H. Dhaliwal¹, J. Orr¹, M. Bertenthal¹, A. D. Murdock², J. H. Waters¹

¹Department of Anesthesiology, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, ²Trauma and General Surgery, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania

S-82 LONG TERM SEDATION WITH VOLATILE ANESTHETICS COMPARED TO PROPOFOL IMPROVES OUTCOME IN A RODENT MODEL OF SEPSIS

M. Schläpfer¹, T. Piegeler¹, R. O. Dulf², D. E. Schwartz², B. Beck-Schimmer¹, R. D. Minshall²

¹Department of Anesthesiology, University Hospital Zurich, Zurich, Switzerland, ²Department of Anesthesiology, University of Illinois at Chicago, Chicago, Illinois

PR01-02 – continued

S-83 INVESTIGATION OF A NOVEL TURBINE-DRIVEN VENTILATOR FOR USE IN CARDIOPULMONARY RESUSCITATION

S. Allen, L. Brewer, E. Gillis, D. Sakata, N. Pace
Anesthesiology, University of Utah, Salt Lake City, Utah

S-84 EPINEPHRINE INTRA-MUSCULAR “PENS”

W. F. Sellers¹, P. Maino²;
¹Anaesthesia, Retired, Great Easton, United Kingdom,
²Anaesthesia, Lugano Hospital, Lugano, Switzerland

S-85 PREDICTION SCORE NOT NECESSARY FOR PATIENTS WITH ATRIAL FIBRILLATION BEFORE CARDIAC SURGERY

E. Conrad, J. Blankenstein, D. T. Tran;
Anesthesiology, University of Ottawa Heart Institute, Ottawa, Ontario, Canada

S-86 THE EFFECT OF PEEP ON BLOOD LOSS DURING RADICAL PROSTATECTOMY

E. I. Ehieli¹, L. Howard², S. J. Freedland³, T. G. Monk⁴
¹Anesthesiology, Duke University Hospital, Durham, North Carolina,
²Biostatistics, Duke University Hospital, Durham, North Carolina,
³Urology, Duke University Hospital, Durham, North Carolina,
⁴Anesthesiology, University of Missouri Hospital, Columbia, Missouri

Neuroscience in Anesthesiology and Perioperative Medicine 1
Abstracts in Poster Discussion Rounds: S-133 – S-139
Presenters in Attendance: 10:00 am – 11:30 am

PR01-03

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

S-133 PERIOPERATIVE CYTOKINE PATTERNS IN CSF AND PLASMA DURING AND AFTER KNEE REPLACEMENT SURGERY

J. Hirsch¹, S. Vacas¹, G. Meckler¹, S. Newman¹, J. Kramer², M. Maze¹, J. M. Leung¹
¹Department of Anesthesia and Perioperative Care, UCSF, San Francisco, California, ²Department of Neurology, UCSF, San Francisco, California

S-134 TO STUDY THE RELATIONSHIP BETWEEN PROTECTIVE EFFECT OF CEREBRAL ISCHEMIA INJURY BY ALL-TRANS RETINOIC ACID AND ITS EFFECT ON TREG CELL IN MICE

C. Wang
Department of Anesthesiology, Xijing Hospital, Xi'an, P.R. China, Xi'an, China

S-135 ROLE OF MITOCHONDRIAL TRANSITION PORE (MTP) CHANNEL PROTEIN VDAC1 IN MIDDLE-AGED RODENTS EXPOSED TO MIDAZOLAM

D. S. Rosenberger¹, W. Subre², F. Falangola³, A. Ledreux⁴, D. Wynn⁴, A. Granholm⁴
¹Anesthesia and Perioperative Medicine & Neurosciences, Medical University of South Carolina, Charleston, South Carolina,
²Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina, ³Radiology and Radiological Science, Medical University of South Carolina, Charleston, South Carolina, ⁴Neurosciences, Medical University of South Carolina, Charleston, South Carolina

S-136 MEASUREMENT OF THE GASOTRANSMITTER HYDROGEN SULFIDE IN HUMANS USING THE FLUORESCENT MOIETY DANSYL AZIDE

N. Collins
Anesthesiology, FAHC/UMV, Burlington, Vermont

S-137 EFFECTS OF ISOFLURANE ON THALAMO-CORTICAL AND CORTICO-CORTICAL TRIGGERED UP STATES IN MURINE BRAIN SLICES

A. Raz¹, H. Hentschke², B. M. Krause³, S. M. Grady¹, M. I. Banks¹
¹Anesthesiology, University of Wisconsin – Madison, Madison, Wisconsin, ²Anesthesiology, University Hospital of Tübingen, Tübingen, Germany, ³Neuroscience Training Program, University of Wisconsin - Madison, Madison, Wisconsin

S-138 MAXIMUM DAILY SODIUM IS A PREDICTOR OF ACUTE KIDNEY INJURY IN PATIENTS FOLLOWING SUBARACHNOID HEMORRHAGE

A. B. Kumar¹, M. Shotwell², Y. Shi², J. Richards¹, J. M. Ehrenfeld³
¹Anesthesia and Critical Care, Vanderbilt University, Nashville, Tennessee, ²Biostatistics, Vanderbilt, Nashville, Tennessee

S-139 NITROUS OXIDE-INDUCED SLOW AND DELTA OSCILLATIONS

K. J. Pavone, O. Akeju, A. L. Sampson, K. Ling, P. L. Purdon, E. N. Brown
Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

Airway Management 1

Abstracts in Poster Discussion Round: S-1 – S-6
Presenters in Attendance: 1:00 pm – 2:30 pm

PR01-04

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

S-1 EMERGENCY INTUBATION WITH VIDEOLARYNGOSCOPY: PRELIMINARY DATA OF A PROSPECTIVE, RANDOMIZED, MULTICENTER OUT-OF-HOSPITAL TRIAL

S. Janssen¹, F. Reifferscheid¹, V. Doerges¹, P. Knacke², A. Callies³, E. Cavus¹
¹Anaesthesiology and Intensive Care Medicine, University Hospital Schleswig-Holstein Campus Kiel, Kiel, Germany, ²Anaesthesiology and Intensive Care Medicine, Sana Clinics Ost-Holstein, Eutin, Germany, ³Anaesthesiology and Intensive Care Medicine, Klinikum Links der Weser, Bremen, Germany

PR01-04 – continued

S-2 “THE PATIENT ACTUALLY LIKES IT!!”: A SIMPLE AND NO-EXTRA-COST TSE-ALLOTEH NASAL CPAP MASK/CIRCUIT FOR A MORBIDLY OBESE PATIENT WITH OBSTRUCTIVE SLEEP APNEA UNDER MAC FOR IRRIGATION AND DEBRIDEMENT OF ANKLE ULCER

H. Skiff, C. W. Hunter, E. Pantin, R. Alloteh, S. Barsoum, C. Klopping, J. Tse
Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Jersey

S-3 DIVERSITY OF OUT-OF-OPERATING-ROOM INTUBATIONS AMONG RESIDENCY PROGRAMS IN THE UNITED STATES

P. Upadya, M. Conopio, J. Spaliaras, A. Padover, A. Krottapalli, S. Shodhan
Anesthesiology, St. Joseph’s Regional Medical Center, Paterson, New Jersey

S-4 A PILOT STUDY TO EVALUATE A NOVEL TECHNIQUE FOR BAG MASK VENTILATION IN A PATIENT WITH ESTABLISHED CRITERIA FOR DIFFICULT MASK VENTILATION

D. Grech, S. Patel, H. Israel, A. Bekker
Anesthesiology, Rutgers New Jersey Medical School, Newark, New Jersey

S-5 PREDICTING THE OPTIMAL CUFF VOLUME WITH THE CROSS-SECTIONAL AREA OF THE TRACHEA

H. Kimura¹, Y. Mishima¹, T. Hiraki², K. Imamura¹, A. Ito³
¹Anesthesiology, Kurume University School of Medicine, Kurumeshi, Japan, ²Anesthesiology, Kurume University School of Medicine, Kurume, Fukuoka, Japan, ³Anesthesiology, Kurume University School of Medicine, Kurume, Japan

S-6 NO-COST TSE “MASK” FOR PRE-OXYGENATION PRIOR TO RAPID SEQUENCE INDUCTION OF GENERAL ANESTHESIA IN A PATIENT WITH LARGE BOWEL OBSTRUCTION, PAINFUL NASOGASTRIC TUBE, ANXIETY AND CLAUSTROPHOBIA

J. Kim, S. Barsoum, N. Kumar, T. Mehta, S. Shah, C. W. Hunter, J. Tse
Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Jersey

S-23 THE CUT-OFF VALUE OF D-DIMER IN FRACTURE PATIENTS: SCREENING FOR PREOPERATIVE DEEP VEIN THROMBOSIS

H. Yoshioka, R. Yasumura, M. Kajitani, H. Yamazaki, Y. Kobayashi
Anesthesiology, Tokyo Medical Center, Tokyo, Japan

S-24 EFFECT OF DEXAMETHASONE ON BLOOD GLUCOSE IN AMBULATORY SURGERY

J. A. Polderman, J. H. Eshuis, M. Hollmann, B. Preckel, J. Hermanides
Anesthesiology, Academic Medical Centre, Amsterdam, Netherlands

S-25 DEEP SEDATION FOR OMFS USING DEXMEDETOMIDINE WITHOUT PROPOFOL

C. Heard, R. Mireles, J. Eckler
Pediatric Anesthesiology, Women & Children’s Hospital of Buffalo, Buffalo, New York

S-26 A NOVEL SEDATION REGIMEN: ADMINISTRATION OF INTRANASAL REMIFENTANIL FOR PEDIATRIC DENTAL SEDATION FOR ADJUNCT SEDATION

C. Heard¹, A. Kundra¹, T. Gardner², C. Ciambella¹, C. Wanamaker²
¹Anesthesiology, Women & Children’s Hospital of Buffalo, Buffalo, New York, ²Pediatric Dentistry, Women & Children’s Hospital of Buffalo, Buffalo, New York

S-27 ASSESSING A MULTIMODAL CURRICULUM TO DEVELOP RESIDENT PROFESSIONALISM AND COMMUNICATION SKILLS – A PILOT STUDY

J. D. Mitchell, C. Ku, V. Wong, L. Fisher, S. Muret-Wagstaff, S. Cohen, S. B. Jones
Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-28 COMPARISON OF PROPOFOL VS. PROPOFOL/FENTANYL ANESTHESIA FOR UPPER GASTROINTESTINAL ENDOSCOPY

M. Hannallah¹, M. Rezaei¹, J. Carroll², A. Charabaty², C. Pales², F. Barton³, N. Haddad²
¹Department of Anesthesia, Georgetown University Hospital, Washington, DC, ²Department of Gastroenterology, Georgetown University Hospital, Washington, DC, ³Department of Biostatistics, The EMMES Corporation, Rockville, Maryland

S-29 EFFECT OF SINGLE DOSE IV ACETAMINOPHEN ON POSTOPERATIVE/POSTDISCHARGE NAUSEA AND VOMITING, PAIN, AND PATIENT SATISFACTION IN OUTPATIENTS UNDERGOING LAPAROSCOPIC CHOLECYSTECTOMY

O. Dowling¹, C. Campese², F. Macchio³, J. Aronsohn³, J. Gold⁴, D. Bosshart⁵, F. Overdyk³
¹Population Health, North Shore-LIJ Health System, Great Neck, New York, ²Anesthesiology, Hofstra North Shore-LIJ School of Medicine, Manhasset, New York, ³Anesthesiology, Hofstra North Shore-LIJ School of Medicine, New Hyde Park, New York, ⁴Anesthesiology, North Shore University Hospital, North Shore-LIJ Health System, Manhasset, New York, ⁵Anesthesiology, Hofstra North Shore-LIJ School of Medicine, Syosset, New York

Ambulatory Anesthesia 1
Abstracts in Poster Discussion Rounds: S-22 – S-29
Presenters in Attendance: 1:00 pm – 2:30 pm

PR01-05

Poster Moderator: R. Hannallah, *Children’s Hospital-DC, Washington, DC*

S-22 SUITABILITY OF THE FOREARM FOR AUTOMATED NON-INVASIVE BLOOD PRESSURE MEASUREMENT

N. Rajan, S. L. Rao
Department of Anesthesiology, Pennsylvania State Hershey Medical Center, Hershey, Pennsylvania

Liver 1

Abstracts in Poster Discussion Rounds: S-128 – S-132

Presenters in Attendance: 1:00 pm – 2:30 pm

PR01-06

Poster Moderator: M. Rice, MD, *University of Florida, Gainesville, Florida*

S-128 DISCOVERY OF A FUNCTIONAL CYP2E1 EPIOTOPE WITH IMPLICATIONS IN THE PATHOGENESIS OF HEPATIC DILI AND INFECTION

D. Njoku¹, D. Thomas², A. Vagos², J. Mantilla², L. Santhanam², N. Rose³, D. Njoku¹

¹ACCM, Pediatrics and Pathology, Johns Hopkins University, Cockeysville, Maryland, ²ACCM, Johns Hopkins University, Baltimore, Maryland, ³Pathology, Medical Microbiology and Immunology, Johns Hopkins University, Baltimore, Maryland

S-130 IMPACT OF %6 STARCH 130/0.4 AND %4 GELATIN INFUSION ON KIDNEY FUNCTION IN THE LIVING-DONOR LIVER TRANSPLANTATION

A.Z. Demir¹, B. Aydinli², H. I. Toprak³, F. M. Yilmaz⁴, Ü. Karadeniz², C. Züngün⁵, P. Uçar⁶

¹Anesthesiology Clinic, Türkiye Yüksek İhtisas Hospital, Ankara, Turkey, ²Anesthesiology Clinic, Türkiye Yüksek İhtisas Hospital, Ankara, Turkey, ³Anesthesiology, Inonu University, Faculty of Medicine, Malatya, Turkey, ⁴Department of Biochemistry, Ankara Numune Education and Research Hospital, Ankara, Turkey, ⁵Biochemistry, Ankara Numune Education and Training Hospital, Ankara, Turkey, ⁶Anesthesiology, Türkiye Yüksek İhtisas Education and Research Hosp, Ankara, Turkey

S-131 ENOLATE-FORMING COMPOUNDS PROVIDE HEPATOPROTECTION IN A MOUSE MODEL OF ACETAMINOPHEN TOXICITY

A. Vydyanathan¹, B. Kosharsky¹, N. Shaparin¹, L. Zhang¹, R. LoPachin², T. Gavin³

¹Anesthesiology and Pain Medicine, Montefiore Medical Center, New York, New York, ²Department of Anesthesiology, Albert Einstein College of Medicine, New York, New York, ³Department of Chemistry, Iona College, New Rochelle, New York

S-132 HYDROXYETHYL STARCH AND ACUTE KIDNEY INJURY IN ORTHOTOPIC LIVER TRANSPLANTATION: A SINGLE CENTER RETROSPECTIVE REVIEW

W. R. Hand, J. R. Whiteley

Anesthesiology and Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina

Pediatric Anesthesiology 1

Abstracts in Poster Discussion Round: S-255 – S-261

Presenters in Attendance: 1:00 pm – 2:30 pm

PR01-07

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

S-255 USE OF ULTRASOUND FOR PEDIATRIC CAUDAL BLOCKS IN A RESIDENCY TRAINING PROGRAM

D. A. Schwartz¹, P. Prasanna¹, A. Begley¹, C. Gibson¹, M. Whitney², R. Dirienzo², N. R. Connolly¹

¹Department of Anesthesiology, Baystate Medical Center, Springfield, Massachusetts, ²Division of Nursing, Baystate Medical Center, Springfield, Massachusetts

S-256 THE USE OF KETOROLAC FOR POSTOPERATIVE ANALGESIA IN CHILDREN UNDERGOING MYRINGOTOMY AND PLACEMENT OF EQUALIZATION TUBES

M. Phillips¹, T. Nguyen², H. Lam³, T. Austin⁴

¹Medical School, Lincoln Memorial University, Cumberland Gap, Tennessee, ²Anesthesiology, Monroe Carell Childrens Hospital, Nashville, Tennessee, ³Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ⁴Anesthesiology, Vanderbilt University, Nashville, Tennessee

S-257 ULTRASOUND-GUIDED THORACIC PARAVERTEBRAL BLOCK CATHETER EXPERIENCE IN TWO NEONATES

M. Thompson¹, B. Haynes²

¹Anesthesiology/Surgery, Covenant Children's Hospital, Lubbock, Texas, ²Neonatology, Covenant Children's Hospital, Lubbock, Texas

S-259 DOES DEXMEDETOMIDINE CAUSE LESS AIRWAY COLLAPSE THAN PROPOFOL WHEN USED FOR DEEP SEDATION

C. Heard¹, S. Watt¹, R. Hegazy¹, P. Gupta², V. Iqbal¹, A. Sabouri³

¹Pediatric Anesthesiology, Women & Children's Hospital of Buffalo, Buffalo, New York, ²Pediatric Radiology, Women & Children's Hospital of Buffalo, Buffalo, New York, ³Anesthesiology, Massachusetts General Hospital, Boston, New York

S-260 MALADAPTIVE BEHAVIOR CHANGES IN PRE-SCHOOL AGE CHILDREN AFTER AMBULATORY SURGERY

L. Lopata¹, Y. Cai¹, J. Busse¹, M. Monteleone¹, M. Huang¹, S. Wang², L. Sun³

¹Department of Anesthesiology, Columbia University, New York, New York, ²Department of Biostatistics, Columbia University, New York, New York, ³Department of Anesthesiology & Pediatrics, Columbia University, New York, New York

S-261 ISOFLURANE EXPOSURE IN NEONATAL RAT PUPS IS NOT ASSOCIATED WITH DECREASED VENTRAL HIPPOCAMPAL SIZE

J. S. Lagoy¹, R. R. Bennett², L. M. Carson³, J. R. Salinaro³, G. M. Sheehan¹, S. C. Hillier¹

¹Anesthesiology, Geisel School of Medicine at Dartmouth College, Lebanon, New Hampshire, ²Anesthesiology, Geisel School of Medicine at Dartmouth, Hanover, New Hampshire, ³Anesthesiology, Dartmouth College, Hanover, New Hampshire

Challenging Case Reports 2

Abstracts in Poster Discussion Round: CC-10 – CC-18

Presenters in Attendance: 2:30 pm – 4:00 pm

PR01-08

Poster Moderator: M. Lovrinovic, MD, *Roswell Park Cancer Institute, Buffalo, New York*

CC-10 ANESTHESIA CONSIDERATIONS FOR CAVERNOUS SINUS HEMANGIOMA

S. R. Jarrett, R. Janakiraman, K. Deepika
Anesthesiology, Jackson Memorial/University of Miami Hospitals, Miami, Florida

CC-11 POST-OPERATIVE ANGIOEDEMA: DIAGNOSIS AND TREATMENT OF HEREDITARY AND ACQUIRED C1 INHIBITOR DEFICIENCY

P. G. Boysen¹, S. M. Lato²
¹Anesthesiology, Ochsner Clinic Foundation, New Orleans, Louisiana, ²Anesthesiology, Ochsner Clinic Foundation, New Orleans, Louisiana

CC-13 ANAESTHETIC MANAGEMENT OF A CASE OF CONGENITAL CATARACT FOR LEFT EYE CATARACT EXTRACTION WITH LEFT VENTRICULAR NON COMPACTION – CHALLENGING CASE REPORT

Y. N. Meghani
Department of Pediatric Anesthesiology, B. J. Wadia Hospital, Mumbai, India

CC-14 SEVERE BRADYCARDIA DURING LARYNGOSCOPY IN A 5 YEAR OLD GIRL WITH HYPERTROPHIC CARDIOMYOPATHY AND CARDIOFACIOCUTANEOUS SYNDROME

A. Lin, A. Dave, T. Kubacki
Anesthesiology, Morgan Stanley Children's Hospital, New York, New York

CC-15 EXTRACORPOREAL MEMBRANE OXYGENATION FOR MANAGING CARBON MONOXIDE POISONING INDUCED CARDIOGENIC SHOCK: A RARE APPLICATION

A. B. Barker
Anesthesiology, University of Alabama, Birmingham, Alabama

CC-16 SUPERIOR VENA CAVA INJURY FOLLOWING CENTRAL VENOUS CATHETER REMOVAL-A CHALLENGING CASE REPORT

B. Aakre, M. Abe
Anesthesiology, Mayo Clinic, Rochester, Minnesota

CC-17 HEPARIN-INDUCED THROMBOCYTOPENIA COMPLICATED BY CARDIAC ISCHEMIA, HEMOTHORAX, AND HIGH DOSE ARGATROBAN

D. Dott, J. Schlesinger
Department of Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee

CC-18 AIRWAY COMPROMISE AND PERIOPERATIVE MANAGEMENT OF A PATIENT WITH ACQUIRED FACTOR XIII (FXIII) INHIBITOR

K. J. Tone¹, M. Lalu¹, S. Kilty², E. Rosenberg³, T. James⁴, A. Tinnmouth⁵
¹Department of Anesthesiology, The Ottawa Hospital, Ottawa, Ontario, Canada, ²Department of Otolaryngology – Head and Neck Surgery, The Ottawa Hospital, Ottawa, Ontario, Canada, ³Department of Critical Care, The Ottawa Hospital, Ottawa, Ontario, Canada, ⁴Ottawa University - Faculty of Medicine, The Ottawa Hospital, Ottawa, Ontario, Canada, ⁵Department of Hematology, The Ottawa Hospital, Ottawa, Ontario, Canada

Critical Care, Trauma and Resuscitation 2

Abstracts in Poster Discussion Round: S-87 – S-93

Presenters in Attendance: 2:30 pm – 4:00 pm

PR01-09

Poster Moderator: S. Worah, MD, *SUNY Downstate Medical Center, Brooklyn, New York*

S-87 COMPARISON OF INTRAVENOUS CONTINUOUS AND BOLUS INFUSION OF FLUIDS IN PATIENTS UNDERGOING MAJOR GASTROINTESTINAL SURGERY

L. H. Navarro e Lima¹, R. M. Lima¹, N. Y. Santos¹, W. Meira¹, G. R. Rodrigues¹, A. Brinley², G. C. Kramer²
¹FMB - Anesthesiology Department, Botucatu Medical School – UNESP, Botucatu, Brazil, ²UTMB – Anesthesiology Department, University of Texas Medical Branch, Galveston, Texas

S-88 MEAN PLATELET VOLUME ASSOCIATION WITH POSTOPERATIVE ACUTE KIDNEY INJURY

D. Cormican¹, M. Maile¹, J. Hafz², E. Jewell¹, M. Engoren¹
¹Department of Anesthesiology & Critical Care, University of Michigan, Ann Arbor, Michigan, ²Dept. of Cardiothoracic Surgery, University of Michigan, Ann Arbor, Michigan

S-89 METHYLENE BLUE ADMINISTRATION FOR ACUTE SEPTIC CARDIOMYOPATHY IN A SEVERELY BURNED PATIENT

J. Schlesinger¹, C. Burger²
¹Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Pharmacy, St. Francis Medical Center, Memphis, Tennessee

S-90 ASA TRAUMA CARE SURVEY: ANESTHESIOLOGY PRACTICES AND OPPORTUNITY FOR EDUCATION

M. McCunn¹, M. S. Vavilala², R. Speck³, R. P. Dutton⁴
¹Anesthesiology and Critical Care, University of Maryland Shock Trauma Center, Baltimore, Maryland, ²University of Washington, Seattle, Washington, ³University of Pennsylvania, Philadelphia, Pennsylvania, ⁴Anesthesia Quality Institute, Park Ridge, Illinois

S-92 NEEDLELESS CONNECTORS SUBSTANTIALLY REDUCE FLOW OF CRYSTALLOID AND RED BLOOD CELLS

R. A. Lehn¹, J. McIsaac², K. Gipson²
¹Anesthesiology, University of Connecticut, Farmington, Connecticut, ²Anesthesiology, Hartford Hospital, Hartford, Connecticut

PR01-09 – continued

S-93 PRE-BLOCK OF $\alpha 7$ ACHRS BY ITS SPECIFIC ANTAGONIST, METHYLLYCACONITINE (MLA) OBLITERATES THE IMMOBILIZATION-INDUCED RESISTANCE TO ROCURONIUM IN MICE

S. Lee¹, H. Yang², Y. Kim³, J. Martyn⁴

¹Department of Anesthesiology and Pain Medicine, Sanggye Paik Hospital, Inje University, College of Medicine, Seoul, Republic of Korea, ²Department of Anesthesiology and Pain Medicine, Asan Medical Center, College of Medicine, University of Ulsan, Seoul, Republic of Korea, ³Department of Anesthesiology and Pain Medicine, Gachon University of Medicine and Science, Incheon, Republic of Korea, ⁴Anesthesiology, Massachusetts General Hospital, Boston, Massachusetts

Neuroscience in Anesthesiology and Perioperative Medicine 2

Abstracts in Poster Discussion Round: S-140 – S-147

Presenters in Attendance: 2:30 pm – 4:00 pm

PR01-10

Poster Moderator: A. Brambrink, MD, PhD, *Oregon Health and Science University, Portland, Oregon*

S-140 DEVELOPMENT AND EVALUATION OF A TRAINING PROTOCOL FOR ASSESSING DELIRIUM AS AN OUTCOME IN CLINICAL TRIALS

K. Escallier¹, H. Maybrier², B. A. Fritz¹, Y. Chen¹, M. R. Muench¹, A. Ben Abdallah², M. S. Avidan²

¹Anesthesiology, Washington University School of Medicine, Saint Louis, Missouri, ²Anesthesiology, Washington University School of Medicine, St. Louis, Missouri

S-141 ASSOCIATION BETWEEN 25-HYDROXYVITAMIN D LEVEL AND PRE-OPERATIVE QUALITY OF LIFE IN JOINT REPLACEMENT SURGERY PATIENTS

L. Blum¹, S. I. Young¹, H. Bedair², A. Freiberg², S. A. Quraishi¹

¹Department of Anesthesia, Critical and Pain Management, Massachusetts General Hospital, Boston, Massachusetts, ²Department of Orthopedic Surgery, Massachusetts General Hospital, Boston, Massachusetts

S-142 IDENTIFICATION OF POTENTIAL TARGET PROTEINS LEADING TO REDUCED SURGICAL BLEEDING FROM PRETREATMENT OF SPRAGUE DAWLEY RATS WITH C. ATROX VENOM

M. Barnhart¹, R. Raval¹, R. Applegate¹, J. Zhang²

¹Anesthesiology, Loma Linda University School of Medicine, Loma Linda, California, ²Anesthesiology, Basic Science Division of Physiology, Loma Linda University, Loma Linda, California

S-143 RELATIONSHIP OF AWAKE BISPECTRAL INDEX TO PREOPERATIVE MEMORY FORMATION

R. L. Wagner¹, M. Allain¹, X. Zheng¹, R. O'Hara², 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-144 CRITICAL ROLE OF INFLAMMATORY CYTOKINES IN IMPAIRING BIOCHEMICAL PROCESSES FOR LEARNING AND MEMORY AFTER SURGERY IN RATS

Z. Zuo

Anesthesiology, University of Virginia, Charlottesville, Virginia

S-145 HIPPOCAMPAL GABAERGIC FIELD POTENTIALS: A NOVEL HIGH THROUGHPUT SCREEN FOR GENERAL ANESTHETICS IN RAT

J. Nie¹, B. Sharma², B. MacIver³, B. D. Heifets³

¹Biology, Stanford University, Stanford, California, ²School of Medicine, Louisiana State University Health Sciences Center, New Orleans, Louisiana, ³Anesthesiology, Perioperative & Pain Medicine, Stanford University School of Medicine, Palo Alto, California

S-146 POST-DISCHARGE NAUSEA AND VOMITING AFTER ORTHOGNATIC SURGERY REMAINS FREQUENT DESPITE IMPLEMENTATION OF MULTIMODAL PROTOCOL EFFECTIVE IN REDUCING POST-OPERATIVE NAUSEA AND VOMITING

J. Berry¹, C. Brookes², J. A. Anderson¹, T. A. Turvey², V. J. Kopp¹

¹Anesthesiology, University of North Carolina, Chapel Hill, North Carolina, ²Oral & Maxillofacial Surgery, University of North Carolina Hospitals, Chapel Hill, North Carolina

S-147 ACTIVATION OF CB2 RECEPTOR SYSTEM REVERSES AMYLOID-INDUCED IMPAIRMENT OF NEUROGENESIS AND COGNITIVE FUNCTION IN RATS

M. Naguib, J. Wu, B. Bie, D. L. Brown

General Anesthesiology, Cleveland Clinic, Cleveland, Ohio

Cardiovascular Anesthesiology 1

Abstracts in Poster Discussion Round: S-51 – S-58

Presenters in Attendance: 4:00 pm – 5:30 pm

PR01-11

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

S-51 PERIOPERATIVE ADULT CARDIAC SURGERY BLOOD UTILIZATION IN THE POST APROTININ ERA: A SINGLE CENTER, 4 YEAR, 634 PATIENT RETROSPECTIVE REVIEW.

A. D. Sharma, A. Al-Achi, D. Behrend, R. Hummel, M. Preston, J. F. Seccombe

Cardiac Anesthesia/Cardiac Surgery, St. Vincent's Hospital Heart Center, Green Bay, Wisconsin

S-52 DEXMEDETOMIDINE DOES NOT PREVENT POSTOPERATIVE ATRIAL FIBRILLATION AFTER LUNG CANCER SURGERY

D. Ai¹, G. Xu², J. Yu³, L. Feng⁴, J. Banchs⁵, J. P. Cata³

¹Anesthesiology and Perioperative Medicine, The University of Texas – MD Anderson Cancer Center, Houston, Texas, ²Anesthesiology, Henan Cancer Hospital, Hunan, China, ³Anesthesiology and Perioperative Medicine, The University of Texas – MD Anderson Cancer Center, Houston, Texas, ⁴Biostatistics, The University of Texas – MD Anderson Cancer Center, Houston, Texas, ⁵Cardiology, The University of Texas – MD Anderson Cancer Center, Houston, Texas

PR01-11 – continued

S-53 PROSPECTIVE RANDOMIZED CLINICAL TRIAL COMPARING ROUTINE INTRAOPERATIVE TRANSESOPHAGEAL ECHOCARDIOGRAPHY TO STANDARD CARE DURING RADICAL CYSTECTOMY

S. Kellman, J. D. Roberts, M. Chaney, E. Negron
Department of Anesthesia and Critical Care, The University of Chicago Medicine, Chicago, Illinois

S-55 PREOPERATIVE PLATELET COUNT IMPROVES TEG-BASED PREDICTION OF THROMBOCYTOPENIA AFTER CARDIOPULMONARY BYPASS

G. A. Hans, L. Roediger, B. Hubert, D. Ledoux, J. Brichant, M. Senard
Anesthesia and Intensive Care Medicine, CHU of Liege, Liege, Belgium

S-56 IS TRANSFUSION ASSOCIATED WITH DECREASED GRAFT PATENCY AFTER CARDIAC SURGERY?

M. Engoren¹, T. A. Schwann², E. Jewell¹, S. Neill¹, P. Benedict¹, D. Likosky³, R. H. Habib⁴
¹Anesthesiology, University of Michigan, Ann Arbor, Michigan, ²Cardiothoracic Surgery, University of Toledo, Toledo, Ohio, ³Cardiac Surgery, University of Michigan, Ann Arbor, Michigan, ⁴Internal Medicine, American University of Beirut, Beirut, Lebanon

S-57 ESTIMATION OF CARDIAC OUTPUT BY NINE DIFFERENT PULSE CONTOUR ALGORITHMS IN CARDIAC SURGERY PATIENTS

O. Broch¹, A. Carstens², M. Gruenewald³, M. Albrecht², J. Renner⁴
¹Department of Anesthesiology and Intensive Care Me, University Schleswig-Holstein, Campus Kiel, Kiel, Germany, ²Department of Anesthesiology and Intensive Care Medicine, University Hospital Schleswig-Holstein, Kiel, Germany, ³Department of Anesthesiology and Intensive Care Medicine, University Hospital SH, Kiel, Kiel, Germany, ⁴Department of Anesthesiology and Intensive Care Medicine, University Hospital Schleswig-Holstein, Campus Kiel, Kiel, Germany

S-58 INCIDENCE OF POSTOPERATIVE ACUTE RENAL DYSFUNCTIONS DEPENDENT ON SURGICAL PROCEDURE USED IN RADICAL OPERATION FOR ABDOMINAL AORTIC ANEURYSM - OPEN ARTIFICIAL GRAFT REPAIR VS. ENDOVASCULAR AORTIC REPAIR

R. Tanii, R. Okutani
Anesthesiology, Osaka City General Hospital, Osaka, Japan

Challenging Case Reports 3

Abstracts in Poster Discussion Round: CC-19 – CC-26

Presenters in Attendance: 4:00 pm – 5:30 pm

PR01-12

Poster Moderator: D. Bustamante, MD, *University of Tennessee, Knoxville, Tennessee*

CC-19 LONG QT SYNDROME AND SEVERE BRONCHOSPASM IN THE PEDIATRIC OPERATING ROOM

C. Abdallah, R. Patel
Anesthesiology, Children's National, Washington, DC

CC-20 ANESTHESIA CONSIDERATIONS IN A PEDIATRIC PATIENT WITH RHOMBENCEPHALOSYNOPSIS AND GOMEZ-LOPEZ-HERNANDEZ SYNDROME

C. Abdallah
Anesthesiology, Children's National, Washington, DC

CC-21 PROLONGED SENSORY AND MOTOR LOSS AFTER HIP ARTHROPLASTY: ROLE OF FASCIA ILIACA BLOCK

J. Van Straten, I. Gasanova, G. P. Joshi
Department of Anesthesiology and Pain Management, University of Texas Southwestern Medical Center, Dallas, Texas

CC-22 ELECTIVE SURGERY WITH ACUTE VENOUS THROMBOEMBOLISM, DOES IT REALLY MATTER?

K. Dorothea, R. Silverman
Anesthesiology, Jackson Memorial Hospital/University of Miami, Miami, Florida

CC-23 EMERGENT INTRAOPERATIVE CARDIOPULMONARY BYPASS DURING NEPHRECTOMY

K. Fikry, M. McKeen
Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

CC-24 INHALED ALBUTEROL INDUCED ATRIAL FIBRILLATION WITH RAPID VENTRICULAR RESPONSE IN A PATIENT AFTER TRICUSPID VALVE REPAIR REQUIRING EMERGENT INTUBATION

K. Nomoto, I. Chung
Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York

CC-25 A CASE OF RESPIRATORY ARREST DURING INTRAOPERATIVE MAGNETIC RESONANCE IMAGING (IMRI) FOR AWAKE CRANIOTOMY

K. Kamata¹, K. Wada¹, T. Maruyama², K. Hirooka¹, N. Komayama¹, Y. Muragaki², M. Ozaki¹
¹Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan, ²Neurosurgery, Tokyo Women's Medical University, Tokyo, Japan

CC-26 HYPERAMMONEMIA CAUSING CENTRAL PONTINE MYELINOLYSIS IN THE POSTOPERATIVE PERIOD

L. Gilbertson¹, A. Jahanian¹, P. Roffey¹, M. Mogos¹, D. Thangathurai², R.H. Modi³
¹Anesthesiology, Keck School of Medicine of USC, Los Angeles, California, ²Anesthesiology, Keck School of Medicine, Los Angeles, California, ³Anesthesiology, LAC USC Medical Center, Los Angeles, California

Moderated Poster Discussion Rounds • Saturday, May 17

Pain Medicine 1

Abstracts in Poster Discussion Round: S-203 – S-209

Presenters in Attendance: 4:00 pm – 5:30 pm

PR01-13

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

S-203 MULTIMODAL ANALGESIA WITH LIDOCAINE FOR ACUTE PAIN – A RETROSPECTIVE STUDY

N. Eipe, Q. Tawfic, J. Penning
Anesthesiology, The Ottawa Hospital, Ottawa, Ontario, Canada

PR01-13 – continued

S-204 INTRATHECAL MULTIDRUG INFUSION FOR PAIN CONTROL IN ELDERLY PATIENTS AND END-STAGE MALIGNANCIES – 3 CASE REPORT SERIES

S. Abdolmohammadi, G. Blaise
Anesthesiology, Notre-Dame Hospital (CHUM), Montreal University, Montreal, Quebec, Canada

S-205 IMPROVING THE UTILIZATION OF AN INPATIENT PAIN SERVICE AT A COMMUNITY HOSPITAL

E. Cooper, G. Sesana, P. Upadya, S. Dadaian
Anesthesiology, St. Joseph's Regional Medical Center, Paterson, New Jersey

S-206 PERIOPERATIVE DEXAMETHASONE AND THE DEVELOPMENT OF CHRONIC POST-MASTECTOMY PAIN: A PROPENSITY MATCHED ANALYSIS

G. S. De Oliveira
Anesthesiology, Northwestern University, Chicago, Illinois

S-207 ASSESSING THE SEVERITY AND RISK FACTORS OF POST OPERATIVE PAIN IN GONDAR UNIVERSITY HOSPITAL, ETHIOPIA FROM MARCH - THE 15TH OF JUNE 2012

W. Admasu
Anesthesia Department, Addis Ababa University, Addis Ababa, Ethiopia

S-208 EFFECT OF INTRAVENOUS LIDOCAINE ON POSTOPERATIVE RECOVERY IN PATIENTS UNDERGOING BREAST SURGERY: A DOUBLE-BLINDED, PLACEBO RANDOMIZED CONTROLLED TRIAL

A. S. Terkawi¹, D. Brenir², M. E. Durieux¹, F. E. Blum³, M. Tiouririne¹
¹Anesthesiology, University of Virginia, Charlottesville, Virginia,
²Surgery, University of Virginia, Charlottesville, Virginia,
³Anesthesiology, University of Virginia, Charlottesville, Virginia

S-209 HUMAN FACTORS RESULTS FOR IONSYS (FENTANYL TRANSDERMAL SYSTEM) FOR POSTOPERATIVE PAIN MANAGEMENT

H. Minkowitz¹, N. Josh², B. Phipps³, S. B. Wilcox⁴, P. Sneeringer⁴
¹Anesthesiology, Memorial Hermann Memorial City Hospital, Bellaire, Texas, ²Global Product Development, The Medicines Company, Redwood City, California, ³Chief Science Officer, The Medicines Company, Redwood City, California, ⁴Consultant, Design Science Consulting, Inc., Philadelphia, Pennsylvania

Economics, Education and Policy 1

Abstracts In Poster Discussion Round: S-101 – S-107

Presenters in Attendance: 4:00 pm – 5:30 pm

PR01-14

Poster Moderator: J. White, MD, *University of Florida, Gainesville, Florida*

S-101 THE IMPACT OF A FLIPPED CLASSROOM ON INTERN WELLNESS AND BURNOUT: A PILOT STUDY

L. Wen, E. Ratner, K. Harrison, L. Chu, E. Mariano, S. Roberts, A. Udani
Department of Anesthesiology, Pain and Perioperative Medicine, Stanford Hospital and Clinics, Palo Alto, California

S-102 LESS FRESH IS MORE GREEN

P. Upadya, S. Shah, S. Dadaian, S. Shodhan, E. Cooper, G. M. Sesana
Anesthesiology, St. Joseph's Regional Medical Center, Paterson, New Jersey

S-104 ANALYSIS OF PATIENT PREFERENCES FOR DIFFERENT TYPES OF PREOPERATIVE ORAL REHYDRATION THERAPY PRODUCTS

Y. Matsuoka
Anesthesiology, West NTT Corporation Osaka Hospital, Osaka, Japan

S-105 INTRODUCTION OF 2ND SIMULATION SESSION DURING 3RD YEAR UNDERGRADUATE ANAESTHESIA CORE ROTATION – “EXIT SIMULATION”

M. Choi¹, S. DeSousa², A. Ryzynski², F. Alam¹, V. Percival¹, I. Devito³, A. Sarmah¹
¹Anesthesiology, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, ²Sunnybrook Canadian Simulation Centre, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada, ³Anesthesiology, Mount Sinai Hospital, Toronto, Ontario, Canada

S-106 SURVEY ON USE OF PHARMACOKINETIC SIMULATION SOFTWARE FOR ANESTHESIA RESIDENT EDUCATION

D. R. Tapia, K. A. Sedeeek
Anesthesiology, Pennsylvania State Hershey Medical Center, Hershey, Pennsylvania

S-107 EVALUATION OF MORE “BRAIN-FRIENDLY” TEACHING TECHNIQUES USED IN A WORKSHOP ON PAIN PREVENTION. PART I: TEACHING CONCEPTS

S. Himmelseher
Anesthesiology, TU Munich, Muenchen, Germany

Moderated Poster Discussion Rounds • Sunday, May 18

Discussion Times: 7:00 am – 8:30 am	Page
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Challenging Case Reports 4	54
Neuroscience in Anesthesiology and Perioperative Medicine 3	55
Patient Safety 1	55

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Anesthetic Pharmacology 2	56
Challenging Case Reports 5	57
Economics, Education and Policy 2	57
Technology, Computing and Simulation 1	58

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Obstetric Anesthesiology 1	59
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Discussion Times: 1:30 pm – 3:00 pm	Page
Cardiovascular Anesthesiology 2	60
Challenging Case Reports 7	60
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Sleep Medicine 1	62

Discussion Times: 3:00 pm – 4:30 pm	Page
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Cardiovascular Anesthesiology 3	63
Patient Safety 3	64
Neuroscience in Anesthesiology and Perioperative Medicine 5	65
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Technology, Computing and Simulation 2	67

Note: Morning session posters must be taken down at 12:00 pm – 12:30 pm 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.

Moderated Poster Discussion Rounds • Sunday, May 18

Anesthetic Pharmacology 1

Abstracts in Poster Discussion Round: S-30 – S-37

Presenters in Attendance: 7:00 am – 8:30 am

PRO2-15

Poster Moderator: F. Donati, MD, *University of Montreal, Montreal, Quebec, Canada*

S-30 DEXMEDETOMIDINE INFUSION AS AN ANESTHETIC ADJUNCT REDUCES THE UTILIZATION OF SEVOFLURANE DURING GENERAL ANESTHESIA

I. Russo-Menna

Anesthesiology, Division of Pediatric, Virginia Commonwealth University Health System, Richmond, Virginia

S-32 LIQUID SEVOFLURANE DOES NOT SUPPORT BACTERIAL GROWTH

I. Batai¹, I. Z. Batai², M. Kerenyi²

¹Anesthesia and Intensive Care, University of Pecs, Pecs, Hungary,

²Medical Microbiology, University of Pecs, Pecs, Hungary

S-33 REFINED METHODS FOR TAIL VENOUS CATHETERIZATION AND INTUBATION FOR TOTAL INTRAVENOUS ANESTHESIA IN RATS

S. K. Puri, J. Li, J. Reyes, V. Le, M. Xiong, J. H. Ye, A. Bekker

Department of Anesthesiology, Rutgers - New Jersey Medical School, Newark, New Jersey

S-34 DIFFERENTIAL ANESTHETIC EFFECTS ON HUMAN NATURAL KILLER CELL ACTIVITY AND TOXICITY

A. J. Patel¹, T. Nakayama¹, K. A. Jones¹, J. Cheung²

¹Anesthesiology, UAB, Birmingham, AL, ²Pediatrics, University of Alabama at Birmingham, Birmingham, Alabama

S-35 DO DELTA SUBUNITS INTRODUCE ASYMMETRY IN GABA-A RECEPTOR ETOMIDATE SITES?

H. Feng, K. Liu, Y. Jounaidi, S. A. Forman

Department of Anesthesia Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-36 A PROSPECTIVE RANDOMIZED DOUBLE BLIND TRIAL COMPARING THE EFFICACY OF A BOLUS OF IV LIDOCAINE AND REMIFENTANYL ON THE INCIDENCE OF COUGHING AT EMERGENCE

L. Poulin¹, F. Gaulin², G. Arcand³, A. Lallo³, F. Girard³

¹Anesthesiology, Université de Montréal, Montréal, QC, Canada,

²Anesthesiology, Hôpital de Saint-Jérôme, Saint-Jérôme, QC,

Canada, ³Anesthesiology, Université de Montréal, Centre Hospitalier Universitaire de Montréal, Division Hôpital Notre-Dame, Montréal, QC, Canada

S-37 ESTIMATING THE POTENCY OF MUSCLE RELAXANTS. COMPARING NON-LINEAR REGRESSION WITH INDIVIDUAL ESTIMATES OF POTENCY USING THE HILL EQUATION

S. B. Bhatt, M. Sarhan, J. M. Sisk

Anesthesiology, University of Toledo Medical Center, Toledo, Ohio

Challenging Case Reports 4

Abstracts in Poster Discussion Round: CC-27 – C-33

Presenters in Attendance: 7:00 am – 8:30 am

PRO2-16

Poster Moderator: I. Hilmi, MB ChB, FRCA, *University of Pittsburgh, Pittsburgh, Pennsylvania*

CC-27 ARGON GAS EMBOLISM DURING PEDIATRIC LIVER RESECTION

N. Singh, R. Christensen

Department of Pediatric Anesthesiology, University of Michigan, Ann Arbor, Michigan

CC-28 ATN OR NOT: DILEMMA BETWEEN ICU TEAM AND UROLOGY

R. H. Modi, L. E. Ota, P. Roffey, M. Mogos, D. Thangathurai

Anesthesiology, LAC-USC Medical Center, Los Angeles, California

CC-29 CHALLENGING CASE REPORT: TRANSIENT HYPERTENSION CAUSED BY INTERSCALENE NERVE BLOCK

A. B. Pichurko, F. M. Orza

Department of Anesthesiology, University of Illinois, Chicago, Illinois

CC-30 SUSPECTED VENOUS AIR EMBOLISM DURING ESOPHAGOGASTRODUODENOSCOPY AND STENT PLACEMENT FOR GASTRIC OUTLET OBSTRUCTION: A CHALLENGING CASE REPORT

C. Beahm, E. Kilmartin

Anesthesiology, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania

CC-31 A CASE OF HYPERACUTE LIVER FAILURE AFTER VOLATILE ANESTHETIC IN A PATIENT WITH QUIESCENT AUTOIMMUNE HEPATITIS

D. Wetzel, R. Patch, J. Jensen, D. Brown

Anesthesiology, Mayo Clinic, Rochester, Minnesota

CC-32 CONSIDERATIONS FOR USE OF ULTRASOUND GUIDANCE FOR PARAVERTEBRAL NERVE BLOCKADE

H. T. Schitteck

Anesthesiology, UPMC, Pittsburgh, Pennsylvania

CC-33 INTERSCALENE BLOCK AND PERMANENT PHRENIC NERVE PARESIS: A RARE COMPLICATION. IS IT PREVENTABLE?

T. Khan, A. R. Brown

Anesthesiology, Columbia University Medical Center, New York, New York

Neuroscience in Anesthesiology and Perioperative Medicine 3

Abstracts in Poster Discussion Round: S-148 – S-153

Presenters in Attendance: 7:00 am – 8:30 am

PRO2-17

Poster Moderator: R. Whittington, MD, *Columbia University, New York, New York*

S-148 CARDIAC SAFETY OF SABER@BUPIVACAINE IN PATIENTS UNDERGOING ABDOMINAL SURGERY IN THE BEST TRIAL

A. Fossa¹, M. Zhou², J. Morganroth³, D. Ellis⁴, C. T. Hartrick⁵, R. Watts⁶, T. J. Gan⁷

¹iCardiac Technologies, iCardiac Technologies, Rochester, New York, ²Statistics, iCardiac Technologies, Rochester, New York, ³ERT, ERT, Philadelphia, Pennsylvania, ⁴Durect Corp., Durect Corp., Cupertino, California, ⁵Department of Anesthesiology, William Beaumont Hospital, Troy, Michigan, ⁶Department of Anaesthesia, The Queen Elizabeth Hospital, Adelaide, Australia, ⁷Department of Anesthesiology, Duke University Medical Center, Durham, North Carolina

S-150 EFFECTS OF HYPERTONIC SODIUM CHLORIDE HYDROXYETHYL STARCH 40 INJECTION ON INTRACRANIAL PRESSURE, CEREBRAL OXYGEN SUPPLY-DEMAND BALANCE AND CARDIOVASCULAR FUNCTION OF NEUROSURGICAL PATIENT

Q. Hui

Department of Anesthesiology, Eye and ENT Hospital Affiliated to Fudan University, Shanghai, China

S-151 CORTICAL RISK FACTORS RELATED TO SURGERY FROM ADNI DATABASE BLOOD AND IMAGING BIOMARKERS

R. P. Kline¹, F. F. Cuadrado², M. Haile³

¹Anesthesiology, NYU Langone Medical Center, New York, New York, ²Anesthesiology, NYU Langone Medical Center, New York, New York, ³Anesthesiology, New York University School of Medicine, New York, New York

S-152 SYNAPTIC PLASTICITY IN THE CA3 SUBFIELD OF THE HIPPOCAMPUS IS FACILITATED BY GABAA RECEPTORS IN MICE

S. Avramescu¹, W. D. Pau², I. Lecker², B. A. Orser³

¹Department of Anesthesia, Sunnybrook Health Sciences Centre, University of Toronto, Toronto, Ontario, Canada, ²Department of Physiology, University of Toronto, Toronto, Ontario, Canada, ³Department of Anesthesia and Physiology, University of Toronto, Toronto, Ontario, Canada

S-153 POSTOPERATIVE COGNITIVE DYSFUNCTION; EXECUTIVE FUNCTION VS. MEMORY AFTER GENERAL ANESTHESIA

S. Deiner, X. Luo, M. Sano

Anesthesiology, Icahn School of Medicine at Mt. Sinai, New York, New York

Patient Safety 1

Abstracts in Poster Discussion Round: S-216 – S-223

Presenters in Attendance: 7:00 am – 8:30 am

PRO2-18

Poster Moderator: G. Hall, MB, BS, PhD, DSc, *Anaesthesia and Intensive Care Medicine, St. George's, University of London, London, United Kingdom*

S-216 AN AUDIT TO DETERMINE THE SAFETY OF THE NOVEL ORAL ANTICOAGULANTS, DABIGATRAN AND RIVAROXABAN, FOR PATIENTS INITIATED ON ANTICOAGULANT THERAPY

H. Kurunadalingam¹, M. P. Vizcaychipi², S. Patel¹, I. H. Gabriel³, H. Yarranton⁴, D. J. Richard Morgan⁵

¹Anaesthesia, Chelsea and Westminster Hospital, London, United Kingdom, ²Anaesthesia, Chelsea & Westminster Hospital, London, United Kingdom, ³Medicine, Chelsea and Westminster Hospital, London, United Kingdom, ⁴Medicine, Chelsea and Westminster Hospital, London, United Kingdom, ⁵Medicine and Emergency Department Directorate, Chelsea and Westminster Hospital, London, United Kingdom

S-217 VENOUS AIR EMBOLISM DURING ADVANCED ENDOSCOPIC PANCREATICO-BILIARY PROCEDURES (AEPBP): THE SOUND OF CATASTROPHE

M. D. Crutchley, M. Phillips, K. A. Jones, T. Nakayama

Anesthesiology, University of Alabama - Birmingham, Birmingham, Alabama

S-218 USING AN ADVERSE EVENT REPORTING TOOL TO ANALYSE THE SAFETY OF SEDATIONS BY NON-ANESTHESIOLOGISTS

E. Eggink, M. J. Gerritsen, S. Eberl, M. Hollmann, B. Preckel

Anesthesiology, Academic Medical Center Amsterdam, Amsterdam, Netherlands

S-219 PRE-PRINTED SYRINGE LABEL PROJECT: A PILOT STUDY

B. Cho, K. B. Lee

Department of Anesthesiology, Stony Brook Medicine, Stony Brook, New York

S-220 EVALUATION OF RISK FACTORS FOR ARYTENOID DISLOCATION AFTER ENDOTRACHEAL INTUBATION A RETROSPECTIVE CASE-CONTROL STUDY

L. Shen, X. Yu, X. Zhang, Y. Huang

Department of Anesthesiology, Peking Union Medical College Hospital, Beijing, China

S-221 KEEP UP OR ELSE! NATIONWIDE TRENDS IN SCIP PERFORMANCE FROM 2008 TO 2012

L. Sun, A. Tung, D. Glick

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

S-222 RISK FACTORS ASSOCIATED WITH SEVERE ARTERIAL LINE COMPLICATIONS

G. A. Nuttall, D. J. Kor

Anesthesiology, Mayo Clinic, Rochester, Minnesota

Moderated Poster Discussion Rounds • Sunday, May 18

PR02-18 – continued

S-223 ACCURACY OF MALIGNANT HYPERTHERMIA DIAGNOSES IN HOSPITAL DISCHARGE RECORDS

T. Pinyavat¹, H. Rosenberg², B. Lang¹, C. Wong³, S. Riazi⁴, L. S. Sun¹, G. Li¹

¹Anesthesiology, Columbia University, New York, NY, ²Medical Education and Clinical Research, Saint Barnabas Medical Center, Livingston, New Jersey, ³Anesthesiology, Northwestern University, Chicago, Illinois, ⁴Anesthesiology, Toronto General Hospital, Toronto, Ontario, Canada

Airway Management 2

Abstracts in Poster Discussion Round: S-7, S-8, S-10 – S-13

Presenters in Attendance: 8:30 am – 10:00 am

PR02-19

Poster Moderator: J. Berman, MD, *University of North Carolina, Chapel Hill, North Carolina*

S-7 RANDOMIZED CONTROLLED TRIAL OF THE RIGID AND FLEXING LARYNGOSCOPE VERSUS THE FIBEROPTIC BRONCHOSCOPE FOR DIFFICULT AIRWAY MANAGEMENT

A. B. King¹, B. D. Alvis², C. Hughes¹, M. Higgins³, D. Hester⁴

¹Department of Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ²Vanderbilt Medical Center, Nashville, Tennessee, ³Anesthesiology, VUMC, Nashville, Tennessee, ⁴Anesthesiology, Vanderbilt University, Nashville, Tennessee

S-8 A NOVEL AIRWAY RESCUE TECHNIQUE: CAMERA IN TUBE INTUBATION THROUGH A SUPRAGLOTTIC AIRWAY

A. Craenen¹, E. Koopman¹, N. Eipe², J. Huitink¹

¹Anesthesiology, Virginia University Medical Center, Amsterdam, Netherlands, ²Anesthesiology, The Ottawa Hospital, Ottawa, Ontario, Canada

S-10 A NOVEL LARYNGOSCOPE MODIFICATION FOR FACILITATING DIRECT LARYNGOSCOPY IN THE SMALL LAB RODENT

S. K. Puri, J. Li, J. Reyes, V. Le, M. Xiong, J. H. Ye, A. Bekker

Department of Anesthesiology, Rutgers - New Jersey Medical School, Newark, New Jersey

S-11 LARYNGEAL MASK AIRWAY USE IN PATIENTS WITH ELEVATED BODY MASS INDEX, A RETROSPECTIVE REVIEW

C. Effertz, C. Burkle, M. Walsh

Anesthesiology, Mayo Clinic, Rochester, Minnesota

S-12 3-DIMENSIONAL DIRECT LARYNGOSCOPY - A FEASIBILITY STUDY

J. M. Watkins-Pitchford

Anesthesiology, Richmond VAMC, Richmond, Virginia

S-13 SIMULATION AS A SET-UP FOR TECHNICAL MASTERY: CAN A HIGH-FIDELITY VIRTUAL WARM-UP IMPROVE RESIDENT PERFORMANCE OF FIBEROPTIC INTUBATION?

S. T. Samuelson

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

Anesthetic Pharmacology 2

Abstracts in Poster Discussion Round: S-38 – S-45

Presenters in Attendance: 8:30 am – 10:00 am

PR02-20

Poster Moderator: I. Batai, PhD, *University of Pecs, Pecs, Hungary*

S-38 GAS MAN DERIVED COMPARTMENTAL AND LEROU PHYSIOLOGICAL MODEL VS LU ET AL CLINICAL DATA FOR DESFLURANE

M. R. Sadean

Anesthesiology, University Hospital Medical Center SUNY at Stony Brook, Stony Brook, New York

S-39 GAS MAN DERIVED COMPARTMENTAL VS LEROU PHYSIOLOGICAL MODEL FOR DESFLURANE

M. R. Sadean

Anesthesiology, University Hospital Medical Center SUNY at Stony Brook, Stony Brook, New York

S-41 PROPOFOL PROTECTS AGAINST HIGH GLUCOSE-INDUCED ENDOTHELIAL INFLAMMATION AND DYSFUNCTION IN HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS

Z. Minmin

Department of Anaesthesiology, Fudan University Shanghai Cancer Centre, Shanghai, China

S-42 CANNABINOID 2 RECEPTOR MODULATION IN MURINE SEPSIS

J. Sardinha¹, M. Kelly¹, J. Zhou², C. Lehmann³

¹Pharmacology, Dalhousie University, Halifax, NS, Canada,

²Microbiology & Immunology; Anesthesia, Dalhousie University,

Halifax, NS, Canada, ³Pharmacology; Microbiology & Immunology; Anesthesia, Dalhousie University, Halifax, NS, Canada

S-43 RAPID AND IMMEDIATE ANTAGONISM BY L-CYSTEINE OF THE NEW ULTRA-SHORT ACTING NONDEPOLARIZER CW 1759-50: PAIRED STUDIES IN RHESUS MONKEYS GIVEN CONTINUOUS INFUSIONS AT 2 X ED99 DOSAGE TO MAINTAIN 100% BLOCK OF TWITCH

J. J. Savarese¹, H. Sunaga¹, M. R. Belmont¹, P. M. Heerdt¹, D. L. Cohn²

¹Anesthesiology, Weill Cornell Medical College, New York, New York,

²Animal Resources Facility, Albany Medical College, Albany, New York

S-44 LIDOCAINE PROTECTED PC12 CELLS AND CULTURED CORTICAL NEURONS FROM BETA AMYLOID TOXICITY

J. Lin¹, S. Liao², W. Zheng²

¹Department of Anesthesiology, Stony Brook University Health

Sciences Center, Stony Brook, New York, ²State Key Laboratory of

Ophthalmology, Sun Yat-Sen University, Guangzhou, China

PR02-20 – continued

S-45 MIDAZOLAM INHIBITS PROLIFERATION OF HUMAN GLIOBLASTOMA MGR2 CELLS

J. Lin¹, W. Zhu², S. Lin³, G. Yan²

¹Department of Anesthesiology, Stony Brook University Health Sciences Center, Stony Brook, NY, ²Department of Pharmacology, Sun Yat-Sen University, Guangzhou, China, ³Research Center, Guangzhou Cellprotek Inc, Guangzhou, China

Challenging Case Reports 5

Abstracts in Poster Discussion Round: CC-34 – CC-40

Presenters in Attendance: 8:30 am – 10:00 am

PR02-21

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

CC-34 COLLABORATION BETWEEN ANESTHESIA AND SURGICAL TEAMS DETERMINES BEST APPROACH TO INFILTRATE LIPOSOME BUPIVACAINE IN A DIFFICULT CASE

L. E. Claybon¹, D. V. Smith²

¹Anesthesiology, St. Elizabeth Medical Center--South, Edgewood, Kentucky, ²Surgery, St. Elizabeth Healthcare, Weight Management Center Florence, Florence, Kentucky

CC-35 CHALLENGING CASE REPORT: NEW ONSET CONVERSION DISORDER PRESENTING AS POST- OPERATIVE ALTERED MENTAL STATUS

D. S. Kang¹, M. Hirschfeld¹, K. M. Certa²

¹Department of Anesthesiology, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania, ²Psychiatry, Jefferson Medical College, Philadelphia, Pennsylvania

CC-36 CHALLENGING CASE REPORT - AIRWAY DEVELOPMENT STATUS-POST GUNSHOT WOUND (GSW) TO THE SHOULDER WITH EXPANDING HEMATOMA AND CARTILAGE DISRUPTION

K. I. McClelland¹, C. E. Griffith², G. D. Hailedingle³

¹Anesthesiology, Howard University College of Medicine, Washington, DC, ²Howard University Hospital, Washington, DC, ³Anesthesiology, Howard University Hospital, Washington, DC

CC-37 ETHICS AND CLINICAL CARE OF THE JEHOVAH'S WITNESS WITH POSTPARTUM HEMORRHAGE

M. Prin, G. Gallos

Anesthesiology, Columbia University Medical Center, New York, New York

CC-38 CHALLENGING CASE REPORT – MALIGNANT HYPERTHERMIA IN THE POSTOPERATIVE SETTING

M. S. Thompson¹, T. Gelzinis¹, I. Hilmi²

¹Anesthesiology, UPMC, Pittsburgh, Pennsylvania, ²Anesthesiology, University of Pittsburgh, Pittsburgh, Pennsylvania

CC-39 PLACEMENT OF AN EPIDURAL WITH SUBSEQUENT ADVENTITIOUS, INTRAOPERATIVE DISCOVERY OF THROMBOCYTOSIS AND CHRONIC MYELOGENOUS LEUKEMIA

M. G. Bergson, C. Connor

Department of Anesthesiology, Boston Medical Center, Boston, Massachusetts

CC-40 HARLEQUIN SYNDROME FOLLOWING IMPLANTATION OF AN INTRATHECAL PUMP- A CASE REPORT

S. Srinivasan¹, N. Zinboonyahoon², S. Narang³

¹Department of General Surgery, Creighton University Medical Center, Omaha, Nebraska, ²Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts, ³Anesthesiology, Perioperative and Pain Management, Brigham and Women's Hospital, Boston, Massachusetts

Economics, Education and Policy 2

Abstracts in Poster Discussion Round: S-103, S-108 – S-114

Presenters in Attendance: 8:30 am – 10:00 am

PR02-22

Poster Moderator: M. Zaugg, MD, *University of Alberta, Edmonton, Alberta, Canada*

S-103 RELATED FACTORS FOR MECHANICAL COMPLICATIONS IN ULTRASOUND GUIDED CENTRAL VENOUS CATHETERIZATION

T. Yorozu¹, Y. Shiokawa², K. Moriyama³, Y. Azuma¹

¹Anesthesiology, Kyorin University, School of Medicine, Tokyo, Japan, ²Neurosurgery, Kyorin University, School, Tokyo, Japan, ³Anesthesiology, Kyorin University, School of Medicine, Tokyo, Japan

S-108 EVALUATION OF MORE BRAIN-FRIENDLY TEACHING TECHNIQUES USED IN A WORKSHOP ON PAIN PREVENTION PART II: KNOWLEDGE GAIN

S. Himmelseher

Anesthesiology, TUMunich, Muenchen, Germany

S-110 IMPACT OF FRESH GAS FLOW RATES ON VOLATILE ANESTHETIC AGENT USAGE: A COST ANALYSIS

A. H. Jeffery

Anesthesiology, McMaster University, Hamilton, Ontario, Canada

S-111 DO STRUCTURED COMMERCIAL INTENSIVE WEEKEND MOCK ORAL BOARD EXAMS IMPROVE EXAM PERFORMANCE?

R. B. Silverman

Anesthesiology, University of Miami, Miami, Florida

S-112 DEVELOPMENT OF CLINICAL PERFORMANCE METRICS FOR RESIDENTS

J. M. Ehrenfeld¹, J. P. Wanderer², W. R. Furman², D. Snyder², M. D. McEvoy²

¹Anesthesiology, Surgery, and Biomedical Informatics, Vanderbilt University, Nashville, Tennessee, ²Anesthesiology, Vanderbilt University, Nashville, Tennessee

PRO2-22 – continued

S-113 QUANTIFICATION OF VARIABILITY IN ANESTHESIA RESIDENCY AIRWAY TRAINING

J. P. Wanderer¹, *S. T. Jennings², J. M. Ehrenfeld¹, M. D. McEvoy¹*
¹Anesthesiology, Vanderbilt University, Nashville, Tennessee,
²Human and Organizational Development, Vanderbilt University, Nashville, Tennessee

S-114 JOB INSECURITY PREDICTS BURNOUT IN PAIN MEDICINE SPECIALISTS

H. Kroll¹, *M. Jesse², M. Jankowski³, D. Tonkin¹*
¹Anesthesiology, Henry Ford Hospital, Detroit, Michigan,
²Behavioral Medicine, Henry Ford Hospital, Detroit, Michigan,
³Biostatistics, Henry Ford Hospital, Detroit, Michigan

Technology, Computing and Simulation 1
Abstracts in Poster Discussion Round: S-303 – S-307
Presenters in Attendance: 8:30 am – 10:00 am

PRO2-23

Poster Moderator: J. Gross, MD, *University of Connecticut Program, Farmington, Connecticut*

S-303 ADHERENCE TO GUIDELINES FOR THE MANAGEMENT OF LOCAL ANESTHETIC SYSTEMIC TOXICITY IS IMPROVED BY AN ELECTRONIC DECISION SUPPORT TOOL AND DESIGNATED 'READER'

W. R. Hand¹, *M. D. McEvoy², W. D. Stoll¹, C. M. Furse¹, P. J. Nietert³*
¹Anesthesiology and Perioperative Medicine, Medical University of South Carolina, Charleston, South Carolina, ²Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee,
³Department of Public Health Sciences, Medical University of South Carolina, Charleston, South Carolina

S-304 SATISFACTION GUARANTEED? ASSESSING SATISFACTION WITH IPAD APPLICATIONS TO FACILITATE EMERGENCE IN NON-NATIVE ENGLISH SPEAKERS

M. C. Galvez¹, **P. O'Connor¹**, *D. Glick²*
¹Anesthesia and Critical Care, The University of Chicago, Chicago, Illinois, ²Anesthesiology and Critical Care, University of Chicago, Chicago, Illinois

S-305 MINIMALLY INVASIVE PREDICTION OF SCVO₂ IN HIGH-RISK SURGERY: THE INTRODUCTION OF A MODEL INDEX OF OXYGENATION

H. S. de Groot¹, *J. Vos¹, T. Scheeren¹, P. A. van Beest¹*
Anesthesiology, University Medical Center Groningen, Groningen, Netherlands

S-306 EVALUATION OF A DECISION SUPPORT SYSTEM TO IMPROVE TIMELY PERIOPERATIVE ANTIBIOTIC REDOSING AND CHARGE CAPTURE OF INVASIVE LINE PLACEMENTS

N. M. DiGiovanni¹, *B. G. Nair², J. R. Douglas¹, S. Newman², A. Schubert¹*
¹Anesthesiology, Ochsner Medical Center and Ochsner Clinical School – University of Queensland, New Orleans, Louisiana,
²Anesthesiology and Pain Medicine, University of Washington, Seattle, Washington

S-307 RELATIONSHIP OF AWAKE BISPECTRAL INDEX TO POSTOPERATIVE MEMORY FORMATION

R. L. Wagner¹, *M. Allain¹, X. Zheng¹, S. N. Ghabra², G. Tobin², M. O'Connor³, D. Glick²*
¹Pritzker School of Medicine, University of Chicago, Chicago, Illinois, ²Anesthesia and Critical Care, University of Chicago, Chicago, Illinois, ³Anesthesiology and Critical Care, The University of Chicago, Chicago, Illinois

Challenging Case Reports 6

Abstracts in Poster Discussion Round: CC-42 – CC-49
Presenters in Attendance: 10:30 am – 12:00 pm

PRO2-24

Poster Moderator: Y. Gozal, MD, *Shaare Zedek Medical Center, Jerusalem, Israel*

CC-42 THE USE OF EXTRACOROREAL MEMBRANE OXYGENATION SYSTEM TO RESUSCITATE A PATIENT THAT WENT INTO UNEXPECTED CARDIAC ARREST FOLLOWING INDUCTION OF ANESTHESIA

R. Faltas
Anesthesiology, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania

CC-43 A CHALLENGING CASE- DEXMEDETOMIDINE FOR THE MANAGEMENT OF ACUTE POST-OPERATIVE PAIN

R. Ramlogan, *N. Eipe, J. Penning*
Anesthesiology, The Ottawa Hospital, Ottawa, Ontario, Canada

CC-44 THE IMPOSSIBLE AIRWAY: ANESTHETIC MANAGEMENT OF A PATIENT WITH A MEDIASTINAL MASS OBSTRUCTING BOTH MAINSTEM BRONCHI

R. Martini, *V. Sera*
Anesthesiology and Perioperative Medicine, Oregon Health and Science University, Portland, Oregon

CC-45 2 CASES OF GENICULAR NERVE BLOCKS (GNBS) FOR CHRONIC KNEE PAIN

S. Shah, *B. Collins, A. Sakr, D. Ramos, W. Grubb, S. Cohen, C. W. Hunter*
Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Jersey

CC-46 "IF IT WALKS LIKE A DUCK": INTRA-ABDOMINAL ARTERIAL BLEED MASQUERADING AS HYPERTHERMIC HYPOTENSION DURING HIPEC

S. T. Samuelson, *A. I. Levine*
Anesthesiology, Icahn School of Medicine at Mount Sinai, New York, New York

CC-47 MASSIVE VENOUS AIR EMBOLISM DURING LIVER TRANSPLANTATION: CASE REPORT AND MANAGEMENT

T. Seelhammer
Anesthesiology, University of Michigan, Ann Arbor, Michigan

PRO2-24 – continued

CC-48 HIGH CARDIAC RISKS AND MASSIVE TONGUE EDEMA FROM AN ALLERGIC REACTION: EPINEPHRINE OR INTUBATION?

W. Chee

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

CC-49 INTUBATION WITH VIDEO LARYNGOSCOPE CAUSING PHARYNGEAL INJURY AND AIRWAY BLEEDING IN A PATIENT ON ANTICOAGULATION THERAPY

B. Cho

Department of Anesthesiology, Stony Brook Medicine, Stony Brook, New York

Obstetric Anesthesiology 1

Abstracts in Poster Discussion Round: S-183 – S-188

Presenters in Attendance: 10:30 am – 12:00 pm

PRO2-25

Poster Moderator: L. Knox, MD, *University of Texas Medical Branch, Galveston, Texas*

S-183 POST CESAREAN SECTION EPIDURAL FENTANYL INFUSION AND MORPHINE PROVIDE SIMILAR ANALGESIA, BUT EPIDURAL MORPHINE CAN CAUSE MORE NAUSEA AND PRURITIS

E. J. Goodman, K. Lai

Anesthesiology, University Hospitals Case Medical Center, Cleveland, Ohio

S-184 REGIONAL ANESTHESIA IN HIGH-RISK PARTURIENTS: EFFICACY IN PARTURIENTS WITH LOW PLATELET COUNTS

B. Hua, S. Nair, J. Bernstein

Anesthesiology, Montefiore Medical Center, Bronx, New York

S-186 IS 6% HETASTARCH PREFERRED OVER PROPHYLACTIC IV EPHEDRINE FOR PREVENTION OF HYPOTENSION FROM INTRATHECAL ROPIVACAINE FOR CESAREAN SECTION?

A. Sakr¹, S. Cohen¹, D. Ramos¹, K. Rah¹, S. Syed², S. Syed¹, C. W. Hunter¹

¹Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, NJ, ²Anesthesiology, ZMAR LLC, Sugar Land, Texas

S-187 DOES INCREASING THE CONCENTRATION OF EPIDURAL-PCA FENTANYL FOR LABOR IMPROVE ANALGESIA WITHOUT EFFECT TO NEONATE?

A. Sakr, S. Cohen, A. Chiricolo, D. Ramos, K. Rah, A. Doucette, C. W. Hunter

Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Jersey

S-188 CSE FOR CESAREAN SECTION: GERTIE MARX VERSUS PENCAN SPINAL NEEDLES

J. Lorthé, S. Shah, S. Cohen, D. Ramos, K. Rah, A. Kapadia, S. Barsoum

Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Jersey

Pain Medicine 2

Abstracts in Poster Discussion Round: S-210 – S-215

Presenters in Attendance: 10:30 am – 12:00 pm

PRO2-26

Poster Moderator: E. Rosero, MD, MSc, *University of Texas Southwestern Medical Center, Dallas, Texas*

S-210 EFFICACY OF SPINAL CORD STIMULATION FOR RELIEF OF NON-MALIGNANT CHRONIC PAIN AND THE IMPORTANCE OF PROPER PATIENT SELECTION

P. Mehrabian, K. D. Candido, R. Sauer, N. Knezevic

Anesthesiology, Advocate Illinois Masonic Medical Center, Chicago, Illinois

S-211 COMPARATIVE STUDY BETWEEN CT GUIDED SUPERIOR HYPOGASTRIC PLEXUS BLOCK AND CLASSIC POSTERIOR APPROACH

A. Ghoneim¹, S. M. Mansour²

¹Anesthesia and Pain Management, National Cancer Institute – Cairo University, Cairo, Egypt, ²Radiology, Faculty of Medicine, Cairo University, Cairo, Egypt

S-212 PHARMACOKINETIC CHARACTERISTICS OF THE IONSYS® (FENTANYL) SEPARATED SYSTEM WITH ENHANCED CONTROLLER

R. S. Sinatra¹, B. Phipps², N. Joshi³

¹Anesthesiology, Yale School of Medicine, New Haven, Connecticut, ²Chief Scientific Officer, Incline Therapeutics, Inc., Redwood City, California, ³Global Product Development, Incline Therapeutics, Inc., Redwood City, California

S-213 THE EFFECTS OF A NEW ORAL FORMULATION OF METHYLNALTREXONE ON BIOAVAILABILITY AND MORPHINE-INDUCED GI TRANSIT CHANGES IN RATS

C. Yuan, C. Wang

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

S-214 MORPHINE 6-O-SULFATE SODIUM: A NOVEL OPIOID ANALGESIC ALTERNATIVE EVALUATED IN A RAT MODEL OF DIABETIC NEUROPATHY

N. Dograi¹, J. K. Yadlapall², M. Dobretsov³, P. A. Crooks⁴

¹Department of Anesthesiology, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas, ²Department of Pharmaceutical Sciences, College of Pharmacy, University of Arkansas for Medical Sciences, Little Rock, Arkansas, ³Associate Professor, Department of Anesthesiology, College of Medicine, University of Arkansas for Medical Sciences, Little Rock, Arkansas, ⁴Professor and Chair, Department of Pharmaceutical Sciences, College of Pharmacy, University of Arkansas for Medical Sciences, Little Rock, Arkansas

S-215 MARKOV CHAIN MODELING OF POSTOPERATIVE PAIN STATE TRANSITIONS

M. A. Bzdega, P. J. Tighe

Department of Anesthesiology, University of Florida, Gainesville, Florida

Moderated Poster Discussion Rounds • Sunday, May 18

Cardiovascular Anesthesiology 2

Abstracts in Poster Discussion Round: S-59 – S-67

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

PRO2-28

Poster Moderator: J. Novalija, PhD, MD, *Medical College of Wisconsin, Milwaukee, Wisconsin*

S-59 A DOUBLE-BLIND, RANDOMIZED, PLACEBO CONTROLLED TRIAL OF PERIOPERATIVE INTRAVENOUS ACETAMINOPHEN IN CARDIAC SURGERY

W. P. Choi¹, S. Jelacic¹, K. C. Cain², P. Richebe³

¹Department of Anesthesiology and Pain Medicine, University of Washington, Seattle, Washington, ²Department of Biostatistics, University of Washington, Seattle, Washington, ³Département d'anesthésiologie, Université de Montreal, Montreal, QC, Canada

S-61 EVALUATION OF DIASTOLIC DYSFUNCTION IN PATIENTS UNDERGOING TRANSCATHETER AORTIC VALVE REPLACEMENT

J. M. Chan¹, P. N. Kampaktsis², F. Y. Lin², I. Hriljac², R. B. Devereux², A. Salemi³, N. J. Skubas¹

¹Department of Anesthesiology, Weill Cornell Medical College, New York, New York, ²Department of Cardiology, Weill Cornell Medical College, New York, New York, ³Department of Cardiothoracic Surgery, Weill Cornell Medical College, New York, New York

S-62 PREDICTION OF ICU LENGTH OF STAY AFTER CARDIAC SURGERY FROM NEURAL NETWORK ANALYSIS OF PRE-OPERATIVE FACTORS

S. Pothula¹, R. J. LaFaro², C. Devlin³, M. A. Inchiosa⁴

¹Anesthesiology, New York Medical College, Valhalla, NY, ²Surgery, New York Medical College, Valhalla, NY, ³Pharmacology, New York Medical College, Valhalla, New York, ⁴Pharmacology/Anesthesiology, New York Medical College, Valhalla, New York

S-63 ANESTHESIA INDUCTION TIME IS PROLONGED BY PROPOFOL INFUSION IN AORTIC REGURGITATION PATIENTS

M. Tripathi¹, M. Pandey²

¹Anesthesiology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India, ²Emergency, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow, India

S-64 INDIVIDUALIZED BLOOD MANAGEMENT IN CARDIAC SURGERY USING POINT-OF-CARE BASED TRANSFUSION ALGORITHM

D. Roy¹, T. Timoumi², C. Bingley³, R. Kanji⁴, R. Selby⁵, V. Rao⁶, K. Karkouti¹

¹Department of Anesthesiology, University of Toronto, Toronto, ON, Canada, ²Department of Anesthesiology, Université Paris Diderot-Paris, Paris, France, ³ONTraC, Blood Conservation Program, University of Toronto, Toronto, ON, Canada, ⁴MBChB, Keele University, Keele, Staffordshire, United Kingdom, ⁵Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Ontario, Canada, ⁶Department of Cardiac Surgery, University of Toronto, Toronto, Ontario, Canada

S-65 THE FRACTAL DIMENSION OF SYSTEMIC VASCULAR RESISTANCE

F. C. Cobey¹, E. W. Ursprung¹, A. Stukowski², E. Tolman¹, S. Ianchulev³, M. Shapiro⁴, R. Schumann¹

¹Anesthesiology, Tufts Medical Center, Boston, Massachusetts, ²Edwards Lifesciences, Boston, Massachusetts, ³Anesthesiology, Tufts Medical Center, Marblehead, Massachusetts, ⁴Mathematics, Tufts University, Medford, Massachusetts

S-66 SAME DAY CANCELLATION OF CARDIAC SURGERY: A RETROSPECTIVE REVIEW AT A LARGE ACADEMIC TERTIARY REFERRAL CENTER

M. M. Smith¹, W. J. Mauermann¹, D. J. Cook¹, J. A. Hyder², D. W. Barbara¹

¹Anesthesiology, Mayo Clinic, Rochester, Minnesota, ²Anesthesiology, Massachusetts General Hospital, Boston, Massachusetts

S-67 HEPARIN DOSE-RESPONSE VARIABILITY IS AFFECTED BY GENETIC VARIANTS IN THE COAGULATION PATHWAY: KNG1 POLYMORPHISMS

T. T. Loo¹, Z. Wadhvani², M. Heydarpour², C. D. Collard³, S. K. Shernan², S. C. Body², J. D. Muehlschlegel²

¹Anesthesiology & Perioperative and Pain Medicine, Faculty of Medicine, Brigham and Women's Hospital, Harvard University, University of Toronto, Boston, Massachusetts, USA, Toronto, Ontario, Canada, MA, ²Anesthesiology & Perioperative and Pain Medicine, Faculty of Medicine, Brigham and Women's Hospital, Harvard University, Boston, Massachusetts, ³Division of Cardiovascular Anesthesia, Texas Heart Institute, St. Luke's Episcopal Hospital, Houston, Texas

Challenging Case Reports 7

Abstracts in Poster Discussion Round: CC-50 – CC-57

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

PRO2-29

Poster Moderator: M. Kato, MD, *International University of Health and Welfare, Sendai, Japan*

CC-50 RECURRENT CENTRAL SENSITIZATION, MECHANISM OF CHRONIC PAIN DEVELOPMENT AND ROLE OF PREVENTIVE ANALGESIA

A. Dizdarevic

Anesthesiology and Pain Medicine, Columbia University Medical Center, New York, New York

CC-51 CHALLENGING CASE REPORT: OPEN APPENDECTOMY FOR RUPTURED APPENDICITIS IN A PATIENT WITH KNOWN IDIOPATHIC SYSTEMIC CAPILLARY LEAK SYNDROME

M. Lee¹, A. K. Nair²

¹Anesthesiology, Mount Sinai Medical Center, New York, New York, ²Anesthesiology, Elmhurst Hospital Center, Elmhurst, New York

CC-52 TRACHEAL TEAR IN THE SETTING OF PULMONARY VASCULITIS

B. Schmidt¹, R. Fagley¹, H. Michal²

¹Anesthesiology, Virginia Mason Medical Center, Seattle, Washington, ²Thoracic Surgery, Virginia Mason Medical Center, Seattle, Washington

PRO2-29 – continued

CC-53 MASSIVE BLOOD LOSS AND LARGE SCALE RESUSCITATION DURING REMOVAL OF RETROPERITONEAL PHEOCHROMOCYTOMA IN A PEDIATRIC PATIENT

C. K. Lamar, A. Reddy, R. McLennan
Anesthesiology, The University of Kentucky, Lexington, Kentucky,

CC-54 A CASE OF UNILATERAL PULMONARY EDEMA

E. D. Wittwer, J. N. Pulido
Anesthesiology, Mayo Clinic Rochester, Rochester, Minnesota

CC-55 ITRAOPERATIVE UROSEPSIS DURING STONE MANIPULATION

P. Hooper¹, E. Herron¹, S. Arulkumar²
¹Anesthesia, LSU Shreveport, Shreveport, Louisiana, ²Anesthesiology, LSUHSC, Shreveport, Louisiana

CC-56 MEDICALLY CHALLENGING CASE OF TEN ASSOCIATED WITH ITP TREATED WITH INTRAVENOUS IMMUNOGLOBULIN

M. D. Hermann¹, J. Schlesinger², C. Burger³
¹Department of Anesthesiology, Division of Critical Care Medicine, Vanderbilt University, Nashville, Tennessee, ²Department of Anesthesiology, Division of Critical Care Medicine, Vanderbilt University Medical Center, Nashville, Tennessee, ³Department of Clinical Pharmacy, Saint Francis Hospital, Memphis, Tennessee

CC-57 LIPOSOME BUPIVACAINE USE IN TRANSVERSUS ABDOMINIS PLANE BLOCK FOR ABDOMINAL SURGERY: A CASE REPORT

S. S. Ayad
Department of Anesthesiology and Pain Management, Fairview Hospital, a Cleveland Clinic Hospital, Cleveland, Ohio

Neuroscience in Anesthesiology and Perioperative Medicine 4

Abstracts in Poster Discussion Round: S-154 – S-160

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

PRO2-30

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

S-154 THREE-HOUR EXPOSURE TO ISOFLURANE CAUSES SIGNIFICANT DEATH OF BRAIN CELLS IN NEONATAL MACAQUES

A. M. Brambrink¹, G. A. Dissler², L. D. Martin³, S. Johnson⁴, J. Olney⁵
¹Anesthesiology and Perioperative Medicine, OHSU, Portland, Oregon, ²Oregon National Primate Research Center, Oregon Health & Science University, OHSU, Portland, Oregon, ³Oregon National Primate Research Center, Oregon Health & Science University, Portland, Oregon, OHSU, Portland, Oregon, ⁴Psychiatry, Washington University in St. Louis, St. Louis, Missouri, ⁵Psychiatry, Washington University St. Louis, Missouri, St. Louis, Missouri

S-155 NEUROENDOCRINE LONG-TERM DEVELOPMENTAL EFFECTS OF EXPOSURE OF NEONATAL RATS TO ANESTHESIA WITH PROPOFOL OR ETOMIDATE

S. Tan¹, C. Xu¹, C. Seubert¹, N. Gravenstein¹, A. Martynyuk²
¹Anesthesiology, University of Florida, Gainesville, Florida, ²Anesthesiology and the McKnight Brain Institute, University of Florida, Gainesville, Florida

S-156 THE EFFECT OF VENTILATION ON CEREBRAL OXYGENATION IN PATIENTS UNDERGOING SURGERY IN THE BEACH CHAIR POSITION: A RANDOMIZED CONTROLLED TRIAL

G. S. Murphy, J. Szokol, S. Greenberg, T. Shear
Anesthesiology, North Shore University Health System, Evanston, Illinois

S-158 SEVOFLURANE AND PROPOFOL INDUCE DISTINCT EEG BURST-SUPPRESSION PATTERNS IN RATS

J. D. Kenny¹, S. Ching¹, B. Westover², E. N. Brown¹, K. Solt¹
¹Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ²Neurology, Massachusetts General Hospital, Boston, Massachusetts

S-159 SELECTIVE INHIBITION OF PHOSPHOINOSITIDE 3-KINASE (PI3K) γ IS NEUROPROTECTIVE IN A RAT MODEL OF SURGICAL BRAIN INJURY

L. Huang¹, P. Sherchan², R. Applegate³, R. D. Martin³, J. Zhang⁴
¹Anesthesiology; Basic Science, Division of Physiology, Loma Lind University, Loma Linda, California, ²Basic Science, Division of Physiology, Loma Linda University, Loma Linda, California, ³Anesthesiology, Loma Lind University, Loma Linda, California, ⁴Neurosurgery, Anesthesiology; Basic Science, Division of Physiology, Loma Lind University, Loma Linda, California

S-160 MOLECULAR MECHANISMS OF ANESTHETIC INDUCED AMNESIA: ISOFLURANE DECREASES ACTIVATION OF INTRACELLULAR SIGNALLING PATHWAYS RESPONSIBLE FOR LONG TERM POTENTIATION AND PERTURBS LONG TERM RETROGRADE MEMORY IN ADULT MICE

M. Haile, A. von Bergen Granell, M. Norcini, A. Lopez, R. Kline, A. Rosenberg, T. Blanck
Anesthesiology, New York University School of Medicine, New York, New York

Patient Safety 2

Abstracts in Poster Discussion Round: S-224 – S-231

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

PRO2-31

Poster Moderator: S. J. Brull, MD, FCARCS (Hon), *Mayo Clinic, Ponte Vedra Beach, Florida*

S-224 TSE “MASK” IMPROVES OXYGENATION AND DECREASES SEVERE DESATURATION IN PROPOFOL-SEDATED PATIENTS DURING ERCP

J. Tse, S. Barsoum, t. Mehta, S. Shah, A. Doucette, G. Casini, S. Cohen
Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Hampshire

Moderated Poster Discussion Rounds • Sunday, May 18

PRO2-31 – continued

S-225 EXTINGUISHING THE FLAMES OF HARM: CHANGING THE STAFFING MODULE

B. G. Fahy¹, D. Gravenstein¹, D. W. Mozingo², J. Gallagher¹, S. E. Ford¹, F. K. Enneking¹, W. T. Richards³

¹Anesthesiology, University of Florida, Gainesville, Florida, ²Surgery, University of Florida, Gainesville, Florida, ³University of Florida, Gainesville, Florida

S-226 TEAMSTEPS IMPLEMENTATION IN CRITICAL CARE: A MULTIDISCIPLINARY AND MULTIPROFESSIONAL APPROACH

P. G. Boysen, F. Winterbottom, T. Northern

Anesthesiology, Ochsner Clinic Foundation, New Orleans, Louisiana

S-227 ULTRASOUND GUIDED CVC TIP POSITIONING AND LUNG ULTRASOUND COMPARED WITH CHEST RADIOGRAPH

S. Kim

Anesthesiology, University of Bonn, Bonn, Germany

S-228 IN VIVO IMMUNE PRIMING TO REDUCE BACTERIAL LOAD IN A MOUSE MODEL OF SURGICAL SITE INFECTION

M. Yeager¹, P. Guyre², P. Pioli², R. Strawbridge³

¹Anesthesiology, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, ²Physiology, Geisel School of Medicine at Dartmouth, Lebanon, New Hampshire, ³Surgery, Geisel School of Medicine at Dartmouth, Lebanon, New Hampshire

S-229 IS NO-COST TSE “MASK” MORE EFFICIENT THAN HIGH NASAL CANNULA OXYGEN FLOW IN REDUCING SEVERE DESATURATION IN PATIENTS UNDER DEEP PROPOFOL SEDATION DURING VARIOUS MINOR SURGICAL PROCEDURES?

S. Barsoum, C. Kloepping, S. Cohen, T. Mehta, S. Shah, J. Kim, J. Tse
Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Jersey

S-230 THE EFFECT-SITE CONCENTRATION OF SUFENTANIL FOR MAINTAINING HEMODYNAMIC STABILITY TO DOUBLE-LUMEN ENDOBRONCHIAL INTUBATION WITH AIRWAY PRETREATMENT USING NEBULIZED LIDOCAINE DURING BIS-GUIDED PROPOFOL ANESTHESIA IN ELDERLY PEOPLE

Y. Luo

Department of Anesthesiology, The Hospital of Qingdao University, Qingdao, China

S-231 COMPARISON OF HOSPITAL LENGTH OF STAY, PERIOPERATIVE RESOURCES AND HYPOXEMIC EVENTS BY SURGICAL PATIENTS WITH AND WITHOUT THE DIAGNOSIS OF OBSTRUCTIVE SLEEP APNEA

A. Fernandez-Bustamante, K. Bullard, L. Jameson

Anesthesiology, University of Colorado Denver, Aurora, Colorado

Regional Anesthesia 1

Abstracts in Poster Discussion Round: S-274 – S-277

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

PRO2-32

Poster Moderator: M. W. Hollmann, MD, PhD, DEAA, Academic Medical Center Amsterdam, Amsterdam, Netherlands

S-274 BRACHIAL PLEXUS NERVE BLOCK IN A PATIENT ON ASPIRIN AND PLAVIX DUE TO RECENT CARDIAC STENT PLACEMENT

A. P. Parikh, A. Sifonios, V. Le, J. D. Eloy

Anesthesia, Rutgers-New Jersey Medical School, Newark, New Jersey

S-275 EVALUATION OF THE FEASIBILITY OF DEXAMETHASONE ADDED TO BUPIVACAINE FOR CONTINUOUS FEMORAL NERVE BLOCK FOR POSTOPERATIVE ANALGESIA AND REHABILITATION AFTER RECONSTRUCTIVE KNEE SURGERY

A. A. Sherif¹, S. M. Soliman², H. M. Koptan³

¹Anesthesia, El-Menoufia University, Kuwait, Kuwait, ²Anesthesia, Ein Shams University, Hadi Clinic, Kuwait, Kuwait, ³Anesthesia, El-Menoufia University, Alexandria, Egypt

S-276 COMPARATIVE STUDY BETWEEN CONTINUOUS EPIDURAL ANESTHESIA AND CONTINUOUS WILEYTM SPINAL ANESTHESIA IN GERIATRIC PATIENTS UNDERGOING TURP

R. S. Ebied, M. Z. Ali, H. F. Khafagy, Y. M. Samhan

Anesthesia, Theodor Bilharz Research Institute, Giza, Egypt

S-277 CLONIDINE AS A LOCAL ANESTHETIC ADJUNCT FOR BRACHIAL PLEXUS BLOCKADE: META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

G. Sidhu¹, R. S. Baker¹, S. Arulkumar¹, C. S. Hamilton¹, J. Saus²

¹Department of Anesthesiology, LSUHSC, Shreveport, Louisiana, ²Anesthesiology, Louisiana State University Health Sciences Center, Shreveport, Louisiana

Sleep Medicine 1

Abstracts in Poster Discussion Round: S-298 – S-302

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

PRO2-33

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

S-298 A META-ANALYSIS OF OVERNIGHT OXIMETRY AS AN INDEPENDENT SCREENING TOOL FOR OBSTRUCTIVE SLEEP APNEA

A. Kumar, S. Ramachandran

Anesthesiology, University of Michigan, Ann Arbor, Michigan

S-299 FATIGUE FROM SLEEP DEPRIVATION WHILE ON CALL PROMOTES RISKY BEHAVIORS ON THE POST CALL DAY

C. Scher¹, J. Huang¹, A. Clebone²

¹Anesthesiology, New York University School of Medicine, New York, New York, ²Anesthesiology, Case Western Reserve University School of Medicine, Cleveland, Ohio

PRO2-33 – continued

S-300 NEW PERSPECTIVE IN PROPOFOL AND SLEEP INTERACTION

M. A. Maher¹, E. A. Maher², A. I. Helmy³, M. I. Hussein¹
¹Anesthesiology, Theodor Bilharz Research Institute, Giza, Egypt,
²Neurophysiology, Faculty of Medicine, Cairo University, Cairo,
 Egypt, ³Surgery, Theodor Bilharz Research Institute, Giza, Egypt

S-301 CHRONIC OPIOID USE AND CENTRAL SLEEP APNEA – A REVIEW OF THE PREVALENCE, RISK FACTORS, MECHANISMS, AND PERIOPERATIVE CONSIDERATIONS

D. Correa¹, F. Chung¹, R. J. Farney², A. Prasad¹, J. Wong¹
¹Anesthesiology, Toronto Western Hospital, Toronto, Ontario, Canada, ²Sleep Medicine, Intermountain Sleep Disorders Center, Salt Lake City, Utah

S-302 EFFECTS OF CONTINUOUS POSITIVE AIRWAY PRESSURE ON POSTOPERATIVE ADVERSE EVENTS IN OBSTRUCTIVE SLEEP APNEA PATIENTS UNDERGOING SURGERY. A SYSTEMATIC REVIEW AND META-ANALYSIS

M. Nacappa, D. Wong, J. Wong, F. Chung
 Department of Anesthesiology, Toronto Western Hospital, Toronto, Ontario, Canada

Anesthetic Pharmacology 3

Abstracts in Poster Discussion Round: S-46 – S-50

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

PRO2-34

Poster Moderator: H. Kinoshita, MD, PhD, Aichi Medical University School of Medicine, Nagakute, Aichi, Japan

S-46 THE EFFECT OF VOLATILE ANESTHETICS ON ADHESION MOLECULE $\alpha\text{M}\beta\text{2}$

K. Yuki
 Department of Anesthesiology, Perioperative and Pain Medicine, Boston Children's Hospital, Boston, Massachusetts

S-47 COMPARISON BETWEEN PROPOFOL-REMIFENTANIL ANESTHESIA AND DESFLURANE-REMIFENTANIL WITH REGARD TO POST-ANESTHETIC FUNCTIONAL RECOVERY MEASURED WITH QOR-40

W. Lee¹, J. Lee²
¹Anesthesiology and Pain Medicine, Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of Korea,
²Anesthesiology and Pain Medicine, Yonsei University College of Medicine, Seoul, Republic of Korea

S-48 A NEW METHOD FOR MEASURING DEPTH OF SEDATION IN BEAGLE DOGS; COMPARISON OF A NOVEL SEDATIVE TO PROPOFOL

G. M. Belfort¹, R. Hammond¹, W. W. Muir², A. J. Robichaud¹, Y. Ueyama², S. J. Kaness³, J. Doherty¹
¹Drug Discovery, Sage Therapeutics, Cambridge, MA, ²Veterinary Medicine, QTest Laboratories, Columbus, OH, ³Clinical Development, Sage Therapeutics, Cambridge, Massachusetts

S-49 PROPOFOL CONFERS CARDIOPROTECTION VIA HO-1 DEPENDENT STAT3 ACTIVATION IN NORMAL RATS BUT VIA ADIPONECTIN DEPENDENT STAT3 ACTIVATION IN TYPE 1 DIABETIC RATS

H. Li¹, X. Mao¹, M. G. Irwin^{1,2}, G. T. Wong^{1,2}, A. S. Clanachan³, P. M. Vanhoutte^{2,4}, Z. Xia^{1,2,5}
¹Department of Anaesthesiology, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Hong Kong, Hong Kong, ²Research Centre, Heart, Brain, Hormone & Healthy Aging, Hong Kong, Hong Kong, ³Department of Pharmacology, Faculty of Medicine and Dentistry, University of Alberta, Edmonton, Alberta, Canada, Edmonton, AB, Canada, ⁴Department of Pharmacology & Pharmacy, Research Centre of Heart, Brain, Hormone & Healthy Aging, Hong Kong, Hong Kong, ⁵State Key Laboratory of Pharmaceutical Biotechnology, The University of Hong Kong, Hong Kong, Hong Kong

S-50 CALABADION II REVERSES STEROIDAL NEUROMUSCULAR BLOCKING AGENTS FASTER THAN SUGAMMADEX AND REVERSES THE EFFECTS OF BENZYLISOQUINOLINES, WITHOUT ALTERING THE EFFECTS OF SUCCINYLCHOLINE IN RATS

I. Moreno Duarte¹, F. Haerter¹, J. Simons¹, D. Diaz Gil¹, K. Eikermann-Haerter², L. Isaacs³, E. Matthias¹
¹Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, MA, ²Department of Radiology, Massachusetts General Hospital, Boston, MA, ³Department of Chemistry and Biochemistry, University of Maryland, Baltimore, Maryland

Cardiovascular Anesthesiology 3

Abstracts in Poster Discussion Round: CC-68 – CC-75

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

PRO2-35

Poster Moderator: B. Preckel, MD, MA, DEAA, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands

S-68 PLATELET TRANSFUSION IS NOT ASSOCIATED WITH INCREASED RISK OF POSTOPERATIVE THROMBOEMBOLIC EVENTS IN CARDIAC SURGERY

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S-69 DEXMEDETOMIDINE DOES NOT PREVENT POSTOPERATIVE ATRIAL FIBRILLATION AFTER ESOPHAGEAL CANCER SURGERY

J. P. Cata¹, D. Ai², J. YU³, L. Feng⁴, J. Lasala²
¹Anesthesiology and Perioperative Medicine, The University of Texas - Maryland Anderson Cancer Center, Houston, Texas, ²Anesthesiology and Perioperative Medicine, Maryland Anderson Cancer Center, Houston, Texas, ³Biostatistics, UT Maryland Anderson Cancer Center, Houston, Texas, ⁴Biostatistics, UT Maryland Anderson Cancer Center, Houston, Texas

PR02-35 – continued

S-70 THE EFFECT OF CHRONIC GARLIC SUPPLEMENT INTAKE ON PLATELET FUNCTION IN HEALTHY VOLUNTEERS: A RANDOMIZED PLACEBO CONTROLLED TRIAL

D. Adelman¹, L. Wetzel², A. Gleiss³, S. Kozek⁴, G. Scharbert⁵

¹Department of Anesthesiology, General Intensive Care and Pain Control, Medical University of Vienna, Vienna, Austria, ²Department of Anaesthesia, General Intensive Care and Pain Control, Medical University of Vienna, Vienna, Austria, ³Center for Medical Statistics, Informatics, and Intelligent Systems, Medical University of Vienna, Vienna, Austria, ⁴Department of Anaesthetics and Intensive Care, Evangelical Hospital Vienna, Vienna, Austria, ⁵Department of Anesthesiology, General Intensive Care and Pain Control, Medical University Vienna, Vienna, Austria

S-71 CARDIOPULMONARY BYPASS TRIGGERS DIMINISHED ABILITY OF ANTIGEN PRESENTING CELLS TO PROCESS ANTIGEN IN SOME PATIENTS

K. Laudanski¹, J. Gutsche¹, T. Connelly², W. Szeto³

¹Department of Anesthesiology and Critical Care, University of Pennsylvania, Philadelphia, Pennsylvania, ²Neuman University, Neuman University, Philadelphia, Pennsylvania, ³Department of Cardiovascular Surgery, University of Pennsylvania, Philadelphia, Pennsylvania

S-72 TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVI) IN PATIENTS OLDER THAN 90 YEARS: IS AGE RELEVANT FOR THE PERIOPERATIVE THERAPY?

P. N. Mayr, T. Ried, K. Martin

Department of Anaesthesiology, Deutsches Herzzentrum Muenchen, TU Muenchen, Munich, Germany

S-73 HAPTOGLOBIN 2-2 PHENOTYPE IS ASSOCIATED WITH INCREASED RISK FOR AKI AND 6-MONTH MORTALITY AFTER CORONARY BYPASS GRAFTING SURGERY IN PATIENTS WITH DIABETES

C. Feng¹, S. Thammishetti¹, D. Groves¹, Z. Zuo², J. Raphael¹

¹Anesthesiology, University of Virginia, Charlottesville, Virginia, ²Anesthesiology, University of Virginia, Charlottesville, Virginia

S-74 EFFECT OF HYPEROXIA IN CONJUNCTION WITH ISOFLURANE IN THE EXPRESSION OF OXIDATIVE STRESS RESPONSE GENES IN THE HEART AND LUNGS OF MICE

K. C. Das, V. Kundumani-Sridharan, T. Walker, J. D. Wasnick

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

S-75 IMPACT OF PREOPERATIVE TROPONIN ELEVATION ON 30-DAY MORTALITY

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

Anesthesiology, University of Michigan, Ann Arbor, Michigan

Patient Safety 3

Abstracts in Poster Discussion Round: S-232 – S-239

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

PR02-36

Poster Moderator: M. Afifi, MD, Northwestern University, Chicago, IL

S-232 CHALLENGING CASE REPORT - INAPPROPRIATE IMPLANTABLE CARDIOVER-DEFIBRILLATOR THERAPY DURING SURGERY: AN IMPORTANT AND PREVENTABLE COMPLICATION

P. M. Schulman¹, E. Kab², M. A. Rozner³

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S-233 IS AXILLARY VEIN SIZE SYMMETRIC AND HOW MUCH DOES PATIENT POSITION MATTER?

P. Orallo, E. A. Baker, N. Gravenstein

Anesthesiology, University of Florida, Gainesville, Florida

S-234 OBJECTIVE POSTOPERATIVE VENTILATORY ASSESSMENT ALGORITHMS IN OBESE PATIENTS FOR PACU MONITORING

R. Schumann¹, E. George², A. Gupta¹, D. Ladd³, I. Bonney¹, S. Ianchulev¹, E. G. Pivalizza⁴

¹Anesthesiology, Tufts Medical Center, Boston, MA, ²Anesthesiology, Massachusetts General Hospital, Boston, MA, ³R & D, West Virginia University, Morgantown, WV, ⁴Anesthesiology, University of Texas Medical School, Houston, Texas

S-235 REMOTE VIDEO AUDITS OF OPERATING ROOM PRACTICES SUSTAINABLY IMPROVE PATIENT SAFETY PROCESSES AND OPERATING ROOM THROUGHPUT

F. Overdyk¹, O. Dowling¹, J. F. Di Capua², D. Armellino¹, J. Iammatteo¹, R. Mercieca¹

¹Anesthesiology, Hofstra North Shore-LIJ School of Medicine, New Hyde Park, New York, ²Anesthesiology, North American Partner in Anesthesia, Armonk, New York

S-236 AGREEMENT BETWEEN PATIENT-REPORTED IN-HOSPITAL POSTOPERATIVE COMPLICATIONS AND COMPLICATIONS FOUND BY CHART REVIEW

B. A. Fritz, K. Escallier, J. Becker, J. D. Oberhaus, K. Geczi, A. Ben Abdallah, M. S. Avidan

Anesthesiology, Washington University School of Medicine, Saint Louis, Missouri

S-237 PREOPERATIVE FACTORS FOR PREDICTING POSTOPERATIVE HYPOTHERMIA AND TEMPERATURE CHANGE FOLLOWING ABDOMINAL SURGERIES

O. Visnjevac¹, R. Kocz¹, P. Kim¹, M. E. Hsia¹, C. G. Samuelson², J. Grande¹, N. D. Nader¹

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PRO2-36 – continued

S-238 BARRIERS TO THE IMPLEMENTATION OF CHECKLISTS IN THE OFFICE-BASED SETTING

R. D. Urman¹, R. Fernando², F. Shapiro¹

¹Anesthesiology, Brigham and Women's Hospital, Boston, Massachusetts, ²Anesthesiology, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-239 DEVELOPMENT OF A COLORECTAL SURGERY REPORTING TOOL: THE NO BUGS DASHBOARD

J. M. Ehbrenfeld¹, J. P. Wanderer², L. M. Sain², T. M. Geiger³, O. Guillaumondegu³, R. Dmochowski³, M. D. McEvoy²

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Neuroscience in Anesthesiology and Perioperative Medicine 5

Abstracts in Poster Discussion Round: S-161 – S-168

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

PRO2-37

Poster Moderator: J. Pasternak, MD, Mayo Clinic, Rochester, Minnesota

S-161 THE EFFECT OF SEVOFLURANE ANESTHESIA ON INDIVIDUAL INTRAOPERATIVE CEREBRAL BLOOD FLOW AUTOREGULATION

N. Goettel¹, M. Czosnyka², S. P. Strebel¹, L. A. Steiner¹

¹Department of Anesthesiology, University Hospital of Basel, Basel, Switzerland, ²Department of Clinical Neurosciences, Neurosurgery Unit, University of Cambridge, Cambridge, United Kingdom

S-162 PROPOFOL AFFECTS DIFFERENT HUMAN BRAIN REGIONS DEPENDING ON DEPTH OF SEDATION

X. Quan, J. Yi, T. H. Ye, S. F. Lin, L. Zou, S. Y. Tian, Y. G. Huang
Anesthesiology, Peking Union Medical College Hospital, Beijing, China

S-163 EFFECT OF ANESTHESIA AND SURGERY ON TAU PATHOLOGY AND COGNITION IN A MOUSE MODEL OF ALZHEIMER'S DISEASE

G. Truchetti, E. Planel

Neurosciences, Université Laval, Québec, QC, Canada,

S-164 POST-SEDATIVE TREATMENT WITH THE MGLUR5 ANTAGONIST MTEP BLOCKS KETAMINE-INDUCED NEURONAL APOPTOSIS IN POSTNATAL 7-DAY RATS

J. Marchand, R. Schumann, Z. Almeer

Anesthesiology, Tufts Medical Center, Boston, Massachusetts

S-165 CRITICAL ROLE OF GLUTAMATE TRANSPORTER TYPE 3 IN DETERMINING ISOFLURANE EFFECTS ON HIPPOCAMPAL GLUR1 TRAFFICKING AND CONTEXT-RELATED LEARNING AND MEMORY IN MICE

C. Jiangbei

Anesthesiology and Operation Center, Anesthesiology and Operation Center, the PLA Gener, Beijing, China

S-166 BAX IS REQUIRED FOR ANESTHESIA INDUCED NEURONAL APOPTOSIS IN NEONATAL MICE

D. Jardine

Anesthesiology and Pediatrics, University of Washington, Seattle, Washington

S-167 HYPOTHERMIA PROVIDES MODEST PROTECTION AGAINST ANESTHESIA INDUCED NEURONAL APOPTOSIS IN NEONATAL MICE

D. Jardine

Anesthesiology and Pediatrics, University of Washington, Seattle, Washington

S-168 PRESYNAPTIC ROLE OF $\alpha 2$ ADRENERGIC RECEPTORS IN RAT HIPPOCAMPAL NEURONS

M. Hara¹, J. P. Baumgart¹, Z. Zhou¹, H. C. Hemmings²

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Pain Mechanisms 1

Abstracts in Poster Discussion Round: S-195 – S-202

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

PRO2-38

Poster Moderator: M. Hollmann, MD, MA, DEAA, Academic Medical Center Amsterdam, Amsterdam, Netherlands

S-195 THE THERAPEUTIC EFFECTS OF GABAPENTIN ON THE NEUROPATHIC PAIN AND ITS POSSIBLE MECHANISMS IN BILATERAL CCI RATS

S. Chen, L. Shen, Y. Huang

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S-196 NEUROANATOMICAL EVIDENCE FOR A ROLE OF CENTRAL MELANOCORTIN-4 RECEPTOR AND μ -OPIOID RECEPTOR IN THE PERIAQUEDUCTAL GREY IN TRANSGENIC MOUSE MODEL

X. Tian, Tliu, H. Xiang

Anesthesiology, Tongji Hospital, Wuhan, China

S-197 LOW-DOSE KETAMINE INFUSION REDUCES POSTOPERATIVE HYDROMORPHONE REQUIREMENTS AND PAIN SCORES IN OPIOID-TOLERANT PATIENTS AFTER SPINAL FUSION

K. Boenigk¹, G. Cuff¹, R. P. Kline², J. McKeever¹, E. Siu¹, A. Atchababian¹, A. D. Rosenberg³

¹Anesthesiology, New York University-HJD, New York, New York, ²Anesthesiology, New York University Langone Medical Center, New York, New York, ³New York University School of Medicine, New York, New York

PRO2-38 – continued

S-198 THE DYNAMIC PROGRESSION OF DIABETIC NEUROPATHY IN THE PERIPHERAL SENSORY LEVEL IN THE TYPE 1 DIABETIC MOUSE MODEL

K. Candiotti¹, Y. Zhang², K. Gomez¹, J. Yang³, Y. F. Rodriguez-Blanco⁴

¹Department of Anesthesiology, Perioperative Medicine and Pain Management, University of Miami, Miami, Florida, ²Anesthesiology, Perioperative Medicine, University of Miami, school of medicine, Miami, Florida, ³Department of Anesthesiology, Tumor Hospital Xiangya School of Medicine of Central South University, Hunan, China, ⁴Anesthesiology, Perioperative Medicine, University of Miami Miller School of Medicine, Miami, Florida

S-199 COMPUTATIONAL ANALYSIS OF THE PF2-LIKE DOMAIN OF WNK4

T. Austin, E. Delpire

Anesthesiology, Vanderbilt University, Nashville, Tennessee

S-200 LONG-LASTING SCIATIC NERVE BLOCK REDUCES ACUTE HYPERALGESIA, NEURONAL HYPEREXCITABILITY AND OPPOSES PAIN VULNERABILITY DEVELOPMENT AFTER SURGERY IN RATS

J. Kim¹, C. Rivat², S. Lim³, C. Ortner⁴, L. Bollag⁴, J. Estebe⁵,

P. G. Richebe⁶

¹Department of Anesthesiology and Pain Medicine, Kangnam Severance Hospital, SEOUL, Korea, Republic of, ²Institut des Neurosciences de Montpellier INM, Hopital Saint Eloi, Universite de Montpellier 2, Montpellier, France, ³Department of Anesthesiology, Inje University, Busan, Korea, Republic of, ⁴Anesthesiology and Pain Medicine, University of Washington Medical Center, Seattle, WA, ⁵Anesthesiology and Pain Medicine, Centre Hospitalier et Universitaire de Rennes, Rennes, France, ⁶Anesthesiology and Pain Medicine, Hopital Maisonneuve Rosemont, University of Montreal, Montreal, QC, Canada

S-201 OPIOID SIGNALING IN MOUSE GLIAL CELLS: IMPLICATIONS FOR OPIOID ANALGESIA AND TOLERANCE

V. L. Tawfik, G. Scherrer

Anesthesiology, Perioperative and Pain Medicine, Stanford University, Stanford, California

S-202 THE POSTERIOR INSULA REVEALS PAIN VS REST FUNCTIONAL CONNECTIVITY DIFFERENCES NOT PRESENT WITH THE ANTERIOR INSULA

K. M. Vogt¹, J. W. Ibinson²

¹Department of Anesthesiology, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, ²Pittsburgh Center for Pain Research, University of Pittsburgh, Pittsburgh, Pennsylvania

Regional Anesthesia 2

Abstracts in Poster Discussion Round: S-280 – S-285

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

PRO2-39

Poster Moderator: M. Rosenblatt, MD, *The Icahn School of Medicine at Mt. Sinai Medical Center, New York, New York*

S-280 IMPACT OF REGIONAL ANESTHESIA ON CIRCULATING TUMOR CELLS, CELL-MEDIATED IMMUNITY AND INFLAMMATORY RESPONSE IN PATIENTS WITH NONMETASTATIC BREAST CANCER

L. Bleckner¹, S. Ponniah², R. Howard³, P. Bedocs⁴, Y. Zhou⁵, C. Buckenmaier⁶

¹Anesthesia, Defense and Veterans Center for Integrative Pain Management; Walter Reed National Military Medical Center, Rockville, Maryland, ²Surgery, Uniformed Services University of the Health Sciences, Bethesda, Maryland, ³Department of Research Programs, Walter Reed National Military Medical Center, Bethesda, Maryland, ⁴Acute Pain Management, Defense and Veterans Center for Integrative Pain Management, Rockville, Maryland, ⁵Research, Walter Reed National Military Medical Center, Bethesda, Maryland, ⁶Acute Pain Management, Defense and Veterans Center for Integrative Pain Management; Walter Reed National Military Medical Center, Rockville, Maryland

S-281 MOTOR SPARING KNEE BLOCK FOR ANALGESIA FOLLOWING KNEE ARTHROPLASTY: DESCRIPTION OF A NEW APPROACH

R. Sondakoppam Vijayashankar, V. Uppal, S. Ganapathy

Department of Anesthesia and Perioperative Medicine, Western University, London, Ontario, Canada

S-282 DOCUMENTATION OF RISK DISCLOSURE IN UPPER LIMB BLOCKS

H. Sehmbi, U. J. Shah, D. Jadhav

Anaesthesia, Frimley Park Hospital, Frimley, United Kingdom

S-283 MANAGEMENT OF EPIDURAL BLOOD PATCHING IN PATIENTS WITH LEUKEMIA

K. A. Sedeek¹, J. Naron¹, M. Farrag¹, O. Aboushanab², S. Mahmoud¹

¹Anesthesiology, Hershey Medical Center, Hershey, Pennsylvania, ²Anesthesiology, University of Cairo, Cairo, Egypt

S-284 OPIOID CONSUMPTION IN TOTAL KNEE ARTHROPLASTY PATIENTS: A RETROSPECTIVE COMPARISON OF ADDUCTOR CANAL AND FEMORAL NERVE CONTINUOUS INFUSIONS

A. E. Ardon, R. A. Greengrass

Anesthesiology, Mayo Clinic, Jacksonville, Florida

S-285 POST-OPERATIVE PAIN CONTROL WITH TRANSVERSUS ABDOMINIS PLANE BLOCKS WITH LIPOSOMAL BUPIVACAINE VERSUS IV OPIOIDS IN LAPAROSCOPIC COLORECTAL PATIENTS: A RETROSPECTIVE COHORT STUDY

J. Hutchins¹, R. Madoff², G. Melton², M. Kwaan², J. Ogilvie³

¹Anesthesia, University of Minnesota, Minneapolis, MN, ²Colorectal Surgery, University of Minnesota, Minneapolis, Minnesota, ³Colon and Rectal Surgery, Spectrum Health Medical Group, Grand Rapids, Michigan

Technology, Computing and Simulation 2

Abstracts in Poster Discussion Round: S-308 – S-313

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

PRO2-40

Poster Moderator: J. Mitchell, MD, *Beth Israel Deaconess Medical Center, Boston, Massachusetts*

S-308 NONINVASIVE ESTIMATION OF LEFT VENTRICULAR AORTIC COUPLING IN HUMANS

Y. Obata¹, T. Shishido², A. Takaku³, S. Fujioka¹, y. honjo¹, K. Takakura¹, K. Shigemi¹

¹Anesthesiology & Reanimatology, University of Fukui Hospital, Fukui, Japan, ²Cardiovascular Dynamics, National Cerebral and Cardiovascular Center, Suita, Japan, ³Faculty of Medical Sciences, University of Fukui, Fukui, Japan

S-309 EMPOWERING PATIENTS TO REDUCE IV INFUSION PUMP ALARM INCIDENCE

A. Fiastro, G. Goldenhersh, D. Lizdas, N. Gravenstein, S. Lamptang
Anesthesiology, University of Florida, Gainesville, Florida

S-310 INHALATIONAL INDUCTION FOR DIFFICULT AIRWAY, FACTORS AFFECTING SPONTANEOUS AIRWAY RECOVERY AFTER OBSTRUCTION: A COMPUTATIONAL SIMULATION

M. Vijjeswarapu¹, A. S. Kuo², J. H. Philip¹

¹Department of Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts, ²Department of Anesthesia, Critical Care, and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-311 R ALGORITHM FOR BAYESIAN POWER MODEL OF CONTINUAL REASSESSMENT METHOD TO DETERMINE ED95

S. Mantha

Anesthesiology and Intensive Care, Nizam's Institute of Medical Sciences, Hyderabad, India

S-312 COMPARISON OF TOF-COUNT: TOF WATCH MONITOR VERSUS SUBJECTIVE ASSESSMENT BY ANESTHESIA PROVIDERS

S. M. Bhananker, B. Sellers, R. Ramaiah, M. M. Treggiari, S. R. Thilen
Anesthesiology & Pain Medicine, University of Washington, Seattle, Washington

S-313 RADIOFREQUENCY BIPOLAR HEMOSTATIC SEALER REDUCES BLOOD LOSS, TRANSFUSION REQUIREMENTS, AND COST FOR PATIENTS UNDERGOING MULTILEVEL SPINAL FUSION SURGERY

S. M. Frank¹, J. O. Wasey¹, E. A. Dackiw¹, P. M. Ness², Z. L. Gokaslan³, K. M. Kebaish⁴

¹Anesthesiology/Critical Care Medicine, Johns Hopkins Medical Institutions, Baltimore, Maryland, ²Pathology (Transfusion Medicine), Johns Hopkins Medical Institutions, Baltimore, Maryland, ³Departments of Neurosurgery, Oncology, and Orthopaedic Surgery, Johns Hopkins Medical Institutions, Baltimore, Maryland, ⁴Orthopaedic Surgery, Johns Hopkins Medical Institutions, Baltimore, Maryland

Moderated Poster Discussion Rounds • Monday, May 19

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Note: Morning session posters must be taken down at 12:00 pm – 12:30 pm to make room for the afternoon sessions.

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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.

Challenging Case Reports 8

Abstracts in Poster Discussion Round: CC-58 – CC-63

Presenters in Attendance: 7:00 am – 8:30 am

PRO3-41

Poster Moderator: E. B. Rosero, MD, *Anesthesiology and Pain Management, University of Texas Southwestern Medical Center, Dallas, Texas*

CC-58 CEREBRAL VENOUS THROMBOSIS AND INTRACRANIAL HEMORRHAGE FOLLOWING A WET TAP: A CHALLENGING CASE REPORT

N. Nwazota¹, C. Pettigrew²

¹Anesthesiology, Baylor College of Medicine, Houston, Texas,

²Emergency Medicine, Baylor College of Medicine, Houston, Texas

CC-59 UTILITY OF BRAIN OXIMETRY FOR FACILITATING AGGRESSIVE HYPOTENSIVE TECHNIQUE IN A JEHOVAH'S WITNESS PATIENT WITH RETROPERITONEAL CANCER

R. H. Modi, C. Garcia, P. Roffey, D. Thangathurai

Anesthesiology, LAC-USC Medical Center, Los Angeles, California

CC-60 PERI-OPERATIVE MANAGEMENT OF A PATIENT PRESENTING WITH STAUFFER'S SYNDROME SECONDARY TO RENAL CELL CANCER

R. H. Modi, T. O'barr, G. Zhu, M. Mogos, P. Roffey, D. Thangathurai

Anesthesiology, LAC-USC Medical Center, Los Angeles, California

CC-61 INTROPES AND TEE FACILITATE LAPAROSCOPIC HEMICOLECTOMY IN A PATIENT WITH SEVERE LEFT VENTRICULAR DYSFUNCTION

R. Rahman¹, S. Goldstein¹, A. W. Berlin²

¹Anesthesiology, Montefiore Medical Center, Bronx, New York,

²Surgery, Montefiore Medical Center, Bronx, New York

CC-62 RECURRENT PANCREATITIS TREATED WITH CONTINUOUS TRANSVERSUS ABDOMINIS PLANE BLOCK FOLLOWED BY UNEXPLAINED CENTRAL NEUROTOXICITY: A MEDICALLY CHALLENGING CASE

R. M. Dionisio, D. I. Smith

Anesthesiology, University of Rochester School of Medicine, Rochester, New York

CC-63 POST INDUCTION ST ELEVATION

S. K. Ombaba, C. Paisansathan

Anesthesiology, University of Illinois College of Medicine at Chicago, Chicago, Illinois

Critical Care, Trauma and Resuscitation 3

Abstracts in Poster Discussion Round: S-94 – S-100

Presenters in Attendance: 7:00 am – 8:30 am

PRO3-42

Poster Moderator: H. Morimatsu, MD, *Okayama University Hospital, Okayama, Japan*

S-94 ESTIMATED GFR AND AKI OUTCOME PREDICTION MODEL FOR POST CARDIAC SURGERY PATIENTS

T. G. Seelhammer¹, M. Engoren¹, M. Maile¹, E. Jewell¹, M. Heung², J. Hafi³

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²Nephrology, University of Michigan, Ann Arbor, MI, ³Cardiac

Surgery, University of Michigan, Ann Arbor, Michigan

S-95 COMPLEMENT FACTOR B ACTS DOWNSTREAM OF TLR3 SIGNALING IN THE HEART IN A MOUSE MODEL OF POLYMICROBIAL SEPSIS

L. Zou, Y. Feng, D. Li, J. Cai, W. Chao

Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts

S-96 ANESTHESIOLOGISTS' PRACTICES IN CARING FOR PATIENTS WITH TRAUMATIC BRAIN INJURY DIFFERS FROM PUBLISHED GUIDELINES

M. McCunn¹, M. Vavilala², R. Speck³, J. Pascual⁴, R. Dutton

¹Anesthesiology and Critical Care, University of Maryland Shock

Trauma Center, Baltimore, MD, ²Anesthesiology and Pain Medicine,

University of Washington, Seattle, WA, ³Anesthesiology and Critical

Care, University of Pennsylvania, Philadelphia, PA, ⁴Trauma Surgery

and Critical Care, University of Pennsylvania, Philadelphia, PA,

⁵Anesthesiology, Anesthesia Quality Institute, Chicago, Illinois

S-97 PULMONARY AND CENTRAL VENOUS PRESSURES AS PROGNOSTIC INDICATORS OF POST LUNG TRANSPLANT OUTCOME

K. Togashi

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

S-98 ACUTE INCREASE IN HYDROSTATIC PRESSURE STIMULATES THE ENDOCYTOSIS OF ALBUMIN AND PHOSPHORYLATION OF CAV-1 IN LUNG MICROVASCULAR ENDOTHELIAL CELLS AND CHRONIC HEART FAILURE MICE: IMPLICATIONS FOR PRESSURE-INDUCED PULMONARY EDEMA

R. O. Dull, A. Isbatan¹, R. Minshall²

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

²Pharmacology, University of Illinois at Chicago, Chicago, Illinois

S-99 MINOCYCLINE FAILS TO IMPROVE NEUROLOGIC AND HISTOLOGIC OUTCOME AFTER VENTRICULAR FIBRILLATION CARDIAC ARREST IN RATS

T. Drabek¹, I. A. Magner², K. L. Schreiber¹, C. D. Wilson¹,

J. P. Stezoski³, P. Kochanek¹, A. Janata⁴

¹Anesthesiology, University of Pittsburgh, Pittsburgh, PA, ²Emergency

Medicine, Medical University of Vienna, Vienna, Austria, ³CCM,

University of Pittsburgh, Pittsburgh, PA, ⁴Critical Care Medicine,

University of Pittsburgh, Pittsburgh, Pennsylvania

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PRO3-42 – continued

S-100 LIBERAL INTRAOPERATIVE FLUID RESUSCITATION IS ASSOCIATED WITH REINTUBATION AND UNPLANNED MECHANICAL VENTILATION ON THE INTENSIVE CARE UNIT

D. J. McLean¹, A. I. Igumensheva¹, T. Nimeh¹, K. S. Ladha¹, J. P. Wanderer², T. Kurth³, M. Eikermann¹

¹Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ²Anesthesia, Vanderbilt University, Nashville, TN, ³Inserm, French National Institute of Health and Medical Research, Bordeaux, France

Obstetric Anesthesiology 2

Abstracts in Poster Discussion Round: S-189 – S-194

Presenters in Attendance: 7:00 am – 8:30 am

PRO3-43

Poster Moderator: C. Wong, MD, Northwestern University, Chicago, Illinois

S-189 PREVENTION OF HYPOTENSION DURING CESAREAN SECTION UNDER SPINAL ANESTHESIA: INCREMENTAL ADMINISTRATION OF 0.2% BUPIVACAINE

Y. Namba, M. Yamakage

Anesthesiology, Sapporo Medical University, Sapporo, Japan

S-190 CAN WE APPLY ELECTRICAL MEDIAN NERVE STIMULATION FOR PROPHYLACTIC TREATMENT OF NAUSEA AND VOMITING (N/V) IN PARTURIENTS UNDERGOING CESAREAN SECTION (C/S) WITH COMBINED SPINAL-EPIDURAL TECHNIQUE (CSE)?

D. Ramos, S. Cohen, A. Mohiuddin, A. Chiricolo, S. Shah, S. Attia, S. Mungekar, J. Lorthé

Anesthesiology, Rutgers-Robert Wood Johnson Medical School, New Brunswick, New Jersey

S-191 INTRAUTERINE RESUSCITATION AUDIT AT A DISTRICT GENERAL HOSPITAL

U. J. Shah, H. Sehmbi, P. Barnardo

Anaesthesia, Frimley Park Hospital, Frimley, United Kingdom

S-192 THROMBOMODULIN IMPROVES MATERNAL AND FETAL CONDITIONS IN AN EXPERIMENTAL PRE-ECLAMPSIA RAT MODEL

H. Hino, M. Hirayama, H. Miyakawa, T. Tateda

Anesthesiology, St. Marianna University School of Medicine, Miyamae-ku, Kawasaki-shi, Japan

S-193 ARTIFICIAL NEURAL NETWORKS IN PREDICTION OF DELIVERY OUTCOME AND NEED FOR EPIDURAL ANALGESIA IN OBSTETRIC ANESTHESIA

M. A. Inchiosa¹, A. Shilkrut², M. Girshin³

¹Pharmacology/Anesthesiology, New York Medical College, Valhalla, New York, ²Obstetrics and Gynecology, New York Medical College (Metropolitan Hospital), New York, NY, ³Anesthesiology, New York Medical College (Metropolitan Hospital), New York, New York

S-194 ONDANSETRON DOSE NOT ATTENUATES HYPOTENSION IN PATIENTS UNDERGOING ELECTIVE CESAREAN DELIVERY UNDER SPINAL ANESTHESIA: A DOUBLE-BLINDED, PLACEBO-CONTROLLED RANDOMIZED TRIAL

A. S. Terkawi, S. H. Mehta, J. H. Hackworth, M. Tiouririne, T. Eng
Anesthesiology, University of Virginia, Charlottesville, Virginia

Airway Management 3

Abstracts in Poster Discussion Round: S-14 – S-21

Presenters in Attendance: 7:00 am – 8:30 am

PRO3-44

Poster Moderator: M. Yamakage, Professor, Sapporo Medical University, Sapporo, Japan

S-14 COMPARISON OF INTUBATING LARYNGEAL MASK AIRWAY AND I-GEL AIRWAY AS A CONDUIT FOR BLIND ENDOTRACHEAL INTUBATION

L. Yalodahalli Shankar Naik

Anaesthesia, Pgimer, Chandigarh, India

S-15 THE INTRA-CUFF PRESSURE DOES NOT REFLECT THE PRESSURE EXERTED ON THE TRACHEAL WALL.: AN IN VITRO STUDY USING ORIGINAL TRACHEAL MODEL

M. Nagai¹, N. Morioka¹, H. Ishii², Y. Kasuya¹, M. Kinoshita¹, R. Kanamori¹, M. Ozaki¹

¹Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan,

²Research Institute of Engineering and Science, Waseda University, Tokyo, Japan

S-16 INCIDENCE AND MORTALITY OF ANESTHESIA-RELATED PULMONARY ASPIRATION: A SINGLE CENTRE EXPERIENCE

J. Renner, O. Broch, H. Francksen, A. Carstens

Anaesthesiology and Intensive Care Medicine, University Hospital Schleswig-Holstein, Campus Kiel, Kiel, Germany

S-17 INFLUENCE OF GLIDESCOPE ASSISTED ENDOTRACHEAL INTUBATION ON INTRAOCULAR PRESSURE

N. Ahmad¹, A. Zahoor¹, S. Motowa¹, W. Riad²

¹Anesthesia, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia, ²Anesthesiology, Toronto Western Hospital, Toronto, Ontario, Canada

S-18 10-YEAR EXPERIENCES IN AIRWAY MANAGEMENT FOR PATIENTS WITH ORAL CAVITY OR OROPHARYNGEAL CANCER WITH AND WITHOUT HEAD AND NECK RADIATION THERAPY

G. Zheng¹, C. X. Chen², N. Huang³, L. Feng⁴, C. M. Lewis⁵

¹Anesthesiology and Perioperative Medicine, UT MD Anderson Cancer Center, Houston, Texas, ²University of Texas Medical School at Houston, Houston, Texas, ³Biological and Allied Health Sciences, Ohio Northern University, Ohio, OH, ⁴UT MD Anderson Cancer Center, Houston, Texas, ⁵Head and Neck Surgery, UT MD Anderson Cancer Center, Houston, Texas

PR03-44 – continued

S-19 INCIDENCE OF DIFFICULT INTUBATION AND ASSOCIATED RISK FACTORS IN A PRIVATE HOSPITAL IN SÃO LUIS

C. M. Oliveira¹, E. R. Moura¹, I. K. Moraes¹, L. G. Baaklini²
¹Anesthesia, Hospital São Domingos, São Luis, Brazil, ²Anesthesia, Hospital São Domingos, Marília, Brazil

S-20 ANESTHESIA AND INCREASED HYPERCARBIC DRIVE IMPAIR THE COORDINATION BETWEEN BREATHING AND SWALLOWING

O. M. D'Angelo, J. C. Simons, D. Diaz Gil, C. Gianatasio, C. Rosow, E. Pierce, M. Eikermann
 Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

S-21 CAN ULTRASOUND SCAN OF THE AIRWAY BE USED TO PREDICT DIFFICULTY OF AIRWAY MANAGEMENT? A COMPUTERIZED TOMOGRAPHY VALIDATION STUDY

F. W. Abdallah¹, S. Abbas², V. Chan¹, E. Yu¹
¹Anesthesia, University of Toronto, Toronto, ON, Canada, ²Anesthesia, Toronto Western Hospital, Toronto, Ontario, Canada

Pediatric Anesthesiology 2

Abstracts in Poster Discussion Round: S-262 – S-268

Presenters in Attendance: 8:30 am – 10:00 am

PR03-45

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

S-262 MULTIVARIATE PREDICTORS OF CARDIO-RESPIRATORY AND HEMATOLOGICAL EVENTS FOLLOWING OPEN CRANIOSYNOSTOSIS SURGERY

S. M. Goobie¹, D. Zurawski¹, M. R. Proctor², V. Young¹, J. Meara³, G. Rogers⁴
¹Anesthesia, Perioperative and Pain Medicine, Boston Children's Hospital, Boston, Massachusetts, ²Department of Neurosurgery, Boston Children's Hospital, Boston, Massachusetts, ³Department of Plastic Surgery, Boston Children's Hospital, Boston, Massachusetts, ⁴Department of Plastic Surgery, Children's National Medical Center, Washington, DC

S-263 TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE) AS A MONITOR OF INTRAOPERATIVE VENTRICULAR VOLUME, FUNCTION AND IV FLUID MANAGEMENT: IMPACT ON INTRA AND POSTOPERATIVE FLUID MANAGEMENT IN THE PARTIAL SEPARATION OF CONJOINED TWINS

I. Russo-Menna¹, C. Rezza²
¹Anesthesiology, Division of Pediatric, Virginia Commonwealth University Health System, Richmond, Virginia, ²Anesthesiology, Hunter-Holmes McGuire Veterans Hospital, Richmond, Virginia

S-264 NEONATAL MICE RECEIVING SEVOFLURANE DO NOT SHOW AUTISTIC BEHAVIOR

W. Chung¹, S. Park², Y. Ko¹
¹Anesthesia and Pain Medicine, Chungnam Nat. University Hospital, Daejeon, Republic of Korea, ²Department of Biological Science, KAIST, Daejeon, Republic of Korea

S-265 FACTORS INFLUENCING POSTOPERATIVE PAIN EXPERIENCES FOLLOWING DISCHARGE IN PEDIATRIC AMBULATORY SURGERY PATIENTS

Y. Cai¹, L. Lopata¹, J. A. Busse¹, M. Monteleone¹, M. Huang¹, S. Wang², L. Sun³
¹Department of Anesthesiology, Columbia University, New York, New York, ²Department of Biostatistics, Columbia University, New York, New York, ³Department of Anesthesiology and Pediatrics, Columbia University, New York, New York

S-266 THE INFLUENCE OF INTRAOPERATIVE HYPOTHERMIA ON ADVERSE SURGICAL OUTCOMES IN CHILDREN UNDERGOING SPINE SURGERY

M. Görges¹, W. Cheung², N. West², S. Aulakh², F. Miyajiri³, S. D. Whyte²
¹Electrical and Computer Engineering, University of British Columbia, Vancouver, British Columbia, Canada, ²Anesthesiology, Pharmacology, & Therapeutics, University of British Columbia, Vancouver, British Columbia, Canada, ³Orthopedics, University of British Columbia, Vancouver, British Columbia, Canada

S-267 ADAPTATION OF THE SOCIETY OF PEDIATRIC ANESTHESIA CRITICAL EVENT CHECKLISTS FOR USE AT A CHILDREN'S HOSPITAL IN A DEVELOPING COUNTRY

T. E. Cox
 Anesthesiology, Washington University School of Medicine, St. Louis, Missouri

S-268 TRANSFUSION ALGORITHMS DECREASE BLOOD TRANSFUSION IN CHILDREN UNDERGOING CRANIOFACIAL RECONSTRUCTION

T. Nguyen¹, H. Lam², T. Austin³
¹Anesthesiology, Monroe Carell Children's Hospital, Nashville, Tennessee, ²Anesthesiology, Vanderbilt University Medical Center, Nashville, Tennessee, ³Anesthesiology, Vanderbilt University, Nashville, Tennessee

Economics, Education and Policy 3

Abstracts in Poster Discussion Round: S-115 – S-122

Presenters in Attendance: 8:30 am – 10:00 am

PR03-46

Poster Moderator: D. Sakata, MD, *University of Utah, Salt Lake City, Utah*

S-115 EXAMINING THE POTENTIAL BENEFITS OF PERIPHERAL NERVE BLOCKADE IN A RESOURCE-LIMITED INTERNATIONAL SETTING: THE EXAMPLE OF RWANDA

A. E. Ardon
 Anesthesiology, Mayo Clinic, Jacksonville, Florida

PR03-46 – continued

S-117 PERIOPERATIVE SURGICAL HOME FOR THE SAME DAY ADMISSION CARDIAC SURGICAL PATIENT: IMPROVING CARE, SATISFACTION, AND ENROLLMENT IN RESEARCH

N. A. Gandhi, A. Goldberg, Z. Zafirova, G. Silvay
Anesthesiology, Mount Sinai School of Medicine, New York,
New York

S-118 ANESTHESIOLOGIST STAFFING CONSIDERATIONS CONSEQUENT TO THE TEMPORAL DISTRIBUTION OF HYPOXEMIC EPISODES IN THE POST ANESTHESIA CARE UNIT

M. G. Lopez¹, R. H. Epstein², J. M. Ehrenfeld³, F. Dexter⁴
¹Anesthesiology, Vanderbilt University, Nashville, Tennessee,
²Anesthesiology, Jefferson Medical College, Philadelphia, PA,
³Anesthesiology, Biomedical Informatics, and Surgery, Vanderbilt
University, Nashville, Tennessee, ⁴Anesthesia, University of Iowa,
Iowa City, Iowa

S-119 THE EFFECT OF PRE-DRAWN SYRINGES ON INTRAOPERATIVE MEDICATION USAGE

K. S. Ladha¹, K. Nanji¹, E. Pierce¹, J. A. Hyder²
¹Anesthesia, Critical Care and Pain Medicine, Massachusetts General
Hospital, Boston, Massachusetts, ²Department of Anesthesiology,
Mayo Clinic, Rochester, Minnesota

S-120 COMPARISON OF ANESTHESIA TRAINING EXPERIENCE AT A RURAL REFERRAL HOSPITAL IN WESTERN KENYA TO AN ACGME-APPROVED PROGRAM IN THE UNITED STATES

*M. D. McEvoy¹, M. W. Newton¹, J. Ehrenfeld¹, J. P. Wanderer¹,
M. Higgins², K. A. McQueen¹, W. S. Sandberg¹*
¹Anesthesiology, Vanderbilt University, Nashville, Tennessee,
²Anesthesiology, VUMC, Nashville, Tennessee

S-121 EVALUATION OF A PATHOLOGY SPECIFIC APPROACH TO DATABASE TEE TRAINING FOR ANESTHESIOLOGY RESIDENTS

C. D. Key¹, O. Klimkina², A. DiLorenzo², P. Zephyr²
¹Anesthesiology, University of Alabama Birmingham, Birmingham,
Alabama, ²Anesthesiology, University of Kentucky, Lexington,
Kentucky

S-122 IMPLEMENTATION OF A JOINT SURGICAL HOME MODEL: A CASE STUDY AT THE UNIVERSITY OF CALIFORNIA IRVINE

L. Garson¹, S. Vakbaria¹, R. Schwarzkop², M. Cannesson¹, Z. Kain¹
¹Anesthesiology & Perioperative Care, University of California Irvine,
Orange, California, ²Orthopedic Surgery, University of California
Irvine, Orange, California

Neuroscience in Anesthesiology and Perioperative Medicine 6

Abstracts in Poster Discussion Round: S-169 – S-175

Presenters in Attendance: 8:30 am – 10:00 am

PR03-47

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

S-169 THE BENZODIAZEPINE ANTAGONIST, FLUMAZENIL, MITIGATES POST-ANESTHESIA EFFECTS OF ISOFLURANE BY IMPROVING VIGILANCE IN A RAT MODEL

*P. S. Garcia¹, S. C. Burke¹, B. L. Raymond¹, G. L. Keating²,
S. R. Baber¹, C. Karlapalem¹, J. A. Fidler¹*
¹Anesthesiology, Emory University / Atlanta VA Medical Center,
Atlanta, Georgia, ²Neurology, Emory University, Atlanta, Georgia.

S-170 PATHOPHYSIOLOGIC DEFICITS IN THE HIPPOCAMPUS OF THE SPRAGUE DAWLEY RAT AFTER REPEATED ISOFLURANE EXPOSURE

R. Long¹, E. Prager¹, J. Capacchione², M. Braga¹
¹Anatomy, Physiology and Genetics; Program in Neuroscience,
Uniformed Services University of the Health Sciences, Rockville,
Maryland, ²Department of Anesthesiology, Uniformed Services
University of the Health Sciences, Rockville, Maryland

S-171 ASSOCIATION BETWEEN PRE-HOSPITAL VITAMIN D STATUS AND HOSPITAL-ACQUIRED NEW ONSET DELIRIUM

S. A. Quraishi¹, C. A. Camargo², K. B. Christopher³
¹Department of Anesthesia, Critical and Pain Management,
Massachusetts General Hospital, Boston, Massachusetts, ²Department
of Emergency Medicine, Massachusetts General Hospital, Boston,
Massachusetts, ³Department of Medicine (Renal Division), Brigham
and Women's Hospital, Boston, Massachusetts

S-172 MOPPS: MEMORIES OF THE PERIOPERATIVE PERIOD STUDY

*Y. Chen¹, A. Cai¹, B. A. Fritz¹, F. Dexter², K. Pryor³, M. S. Avidan¹,
A. Winter¹*
¹Anesthesiology, Washington University School of Medicine, Saint
Louis, Missouri, ²Anesthesia, University of Iowa, Iowa City, IA,
³Anesthesiology, Weill Cornell Medical College, New York, New York

S-173 POSTANESTHETIC MEMORY DEFICITS IN MICE ARE CAUSED BY INCREASED ACTIVITY OF EXTRASYNAPTIC GABA(A) RECEPTORS

A. A. Zurek¹, Y. Jieying¹, B. A. Orser²
¹Physiology, University of Toronto, Toronto, ON, Canada,
²Anesthesia, Physiology, University of Toronto, Ontario, Ontario,
Canada

S-174 NEONATAL EXPOSURE TO NITROUS OXIDE DISTURBS GRANULE CELL MIGRATION IN THE RAT DENTATE GYRUS

*H. Saito, R. Kato, T. Hashimoto, Y. Uchida, T. Hase, K. Takita,
Y. Morimoto*
Department of Anesthesiology and Critical Care Medicine, Hokkaido
University Graduate School of Medicine, Sapporo, Japan

PR03-47 – continued

S-175 GESTATIONAL PROPOFOL EXPOSURE INDUCES NEUROAPOPTOSIS AND LONG-TERM BEHAVIORAL DEFICITS IN OFFSPRING RATS

J. Reyes, S. K. Puri, J. LI, M. Xiong, J. D. Eloy, J. H. Ye, A. Bekker
Anesthesiology, Rutgers - New Jersey Medical School, Newark, New Jersey

Pediatric Anesthesiology 3

Abstracts in Poster Discussion Round: S-269 – S-273
Presenters in Attendance: 8:30 am - 10:00 am

PR03-48

Poster Moderator: L. Sun, MD, Columbia University, New York, New York

S-269 INCIDENCE AND DURATION OF INTRAOPERATIVE HYPOTENSION IN NEONATES AND INFANTS

R. S. Park¹, M. Mccann²

¹Anesthesiology, Perioperative and Pain Medicine, Boston Children's Hospital, Boston, Massachusetts, ²Anesthesiology, Perioperative and Pain Medicine, Children's Hospital Anesthesia Foundation, Boston, Massachusetts

S-270 ANESTHESIA-INDUCED NEUROTOXICITY IN THE DEVELOPING MURINE RETINA

Y. Cheng, L. He, R.J. Levy

Anesthesiology, Children's National Medical Center, Washington, DC

S-271 GENETIC VARIANTS OF BLOOD BRAIN TRANSPORTER, ABCB1 ARE ASSOCIATED WITH OPIOID RELATED RESPIRATORY DEPRESSION IN CHILDREN

S. Sadhasivam, V. Chidambaran, H. Esslinger, X. Zhang

Anesthesia, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio

S-272 WHAT DO CHILDREN REMEMBER ABOUT THE DAY OF SURGERY AND HOW ACCURATE ARE THESE MEMORIES

T. Hackmann¹, R. Haworth², J. Chorney³

¹Paediatric Anaesthesia, IWK Health Centre, Halifax, Nova Scotia, Canada, ²Psychology, Dalhousie University, Halifax, Nova Scotia, Canada, ³Pediatric Anesthesia, IWK Health Centre, Halifax, Nova Scotia, Canada

S-273 CEREBRAL OXYGEN EXTRACTION MEASURED BY NIRS AND JUGULAR BULB OXYGEN SATURATION DEMONSTRATES THE IMPORTANCE OF HEMOGLOBIN CONCENTRATION IN CONGENITAL HEART DISEASE

B. D. Kussman¹, P. C. Laussen², D. B. McElhinney³, P. B. Benni⁴, H. Lin⁵, F. X. McGowan⁶

¹Anesthesiology, Boston Children's Hospital, Boston, Massachusetts, ²Critical Care Medicine, The Hospital for Sick Children, Toronto, Ontario, Canada, ³Pediatrics, New York University Langone Medical Center, New York, New York, ⁴Chief Scientific Officer, CAS Medical Systems, Inc, Branford, Connecticut, ⁵Health Evidence and Policy, Mount Sinai Hospital, New York, New York, ⁶Anesthesiology, Children's Hospital of Philadelphia, Philadelphia, Pennsylvania

Challenging Case Reports 9

Abstracts in Poster Discussion Round: CC-65 – CC-72
Presenters in Attendance: 10:30 am – 12:00 pm

PR03-49

Poster Moderator: B. Subramaniam, MD, MPH, Beth Israel Deaconess Medical Center, Boston, Massachusetts

CC-65 CHALLENGING CASE REPORT: NEURAXIAL ANALGESIA FOR LABOR AND DELIVERY IN A PATIENT WITH INCOMPLETE QUADRIPLÉGIA AND AN INTRATHECAL PUMP

P. V. Patel¹, K. Vanderhoef, P. James², P. Challapalli³, C. James²

¹Department of Anesthesiology, Mayo Clinic College of Medicine, Jacksonville, Florida, ²Department of Anesthesiology, University of Florida College of Medicine-Jacksonville, Jacksonville, Florida, ³Department of Obstetrics and Gynecology, University of Florida College of Medicine-Jacksonville, Jacksonville, Florida

CC-66 NEOPLASTIC NECK PAIN SUCCESSFULLY MANAGED WITH UPPER CERVICAL INTRATHECAL CATHETER

S. Srinivasan¹, N. Zinboonyahoon², S. Narang²

¹Department of General Surgery, Creighton University Medical Center, Omaha, NE, ²Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts

CC-67 A RACY CASE: THE CHALLENGE OF INTRAOPERATIVE SUPRAVENTRICULAR TACHYCARDIA TO 170

T. K. Sudweeks, D. Cole, J. White

Anesthesiology, University of Florida, Gainesville, Florida

CC-68 PREGNANT PATIENT WITH MYOTONIC DYSTROPHY

A. K. Nair, D. R. Kamalam

Anesthesiology, Elmhurst Hospital Center, Elmhurst, New York

CC-69 A SIMPLE METHOD FOR POSITIVE PRESSURE VENTILATION DURING FIBEROPTIC INTUBATION: CASE REPORT AND REVIEW OF THE LITERATURE

J. Kynes, J. Meserve

Department of Anesthesia, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts

CC-70 ABSENT MEP IN UPPER EXTREMITY FOLLOWING POSITIONING FOR ACOUSTIC NEUROMA RESECTION

C. Houston, M. Hammer, A. Kohl

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

CC-71 INTRA-OPERATIVE TEE PROFOUNDLY CHANGED THE COURSE OF SURGERY AND SAVED THE LIFE OF PATIENT WITH RENAL CELL CANCER AND CAVAL THROMBUS

R. H. Modi, J. Chandrasoma, P. Roffey, D. Thangathurai

Anesthesiology, LAC-USC Medical Center, Los Angeles, California

CC-72 A NOVEL WAY TO PERFORM INTRAOPERATIVE AUTOLOGOUS BLOOD TRANSFUSION DURING A PEDIATRIC HEART TRANSPLANT: A CASE REPORT

N. Singh, P. Reynolds

Department of Pediatric Anesthesiology, University of Michigan, Ann Arbor, Michigan

Moderated Poster Discussion Rounds • Monday, May 19

Economics, Education and Policy 4

Abstracts in Poster Discussion Round: S-109, 123 – S-127

Presenters in Attendance: 10:30 am – 12:00 pm

PR03-50

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

S-109 TEACHING METHODS FOR AIRWAY MANAGEMENT SKILLS

S. Patel

Anaesthesia, Pennine Acute NHS Trust, Rochdale, United Kingdom

S-123 DATA-DRIVEN ANALYSIS OF RACIAL AND ETHNIC DIFFERENCES IN REPORTED PAIN

J. A. Caballero¹, D. Ruau², A. J. Butte³

¹Anesthesiology, Perioperative and Pain Medicine, Stanford University School of Medicine, Palo Alto, California, ²Cambridge Institute for Medical Research, University of Cambridge, Cambridge, United Kingdom, ³Pediatrics – Systems Medicine, Stanford University School of Medicine, Palo Alto, California

S-125 AMERICAN SOCIETY OF ANESTHESIOLOGISTS (ASA) PHYSICAL STATUS CLASSIFICATION PREDICTS LENGTH OF STAY IN PATIENTS UNDERGOING ROBOTIC ASSISTED LAPAROSCOPIC PROSTATECTOMIES

R. LaCivita¹, P. Gupta¹, A. Schulman²

¹Anesthesiology, Maimonides Medical Center, Brooklyn, New York, ²Urology, Maimonides Medical Center, Brooklyn, New York

S-126 WOMEN'S INTEREST IN ANESTHESIOLOGY RESIDENCY: THE EFFECT OF THE EIGHTY-HOUR WORK RULE

G. P. Joshi¹, E. Ozayar², E. B. Rosero¹

¹Anesthesiology and Pain Management, University of Texas Southwestern Medical Center, Dallas, Texas, ²Anesthesiology and Reanimation, Ankara Keçiören Training and Research Hospital, Ankara, Turkey

S-127 VALIDATING A VETERANS AFFAIRS PERIOPERATIVE SURGICAL HOME: OPTIMIZING PATIENTS WITH CORONARY ARTERY DISEASE IN THE PREOPERATIVE CLINIC

L. Yarmush

Anesthesiology, Houston Veterans Affairs Medical Center, Houston, Texas

Patient Safety 4

Abstracts in Poster Discussion Round: S-240 – S-247

Presenters in Attendance: 10:30 am – 12:00 pm

PR03-51

Poster Moderator: T. Yorozu, MD, *Department of Anesthesiology, Kyorin University, School, Tokyo, Japan*

S-240 PREVENTING IATROGENIC HYPERKALEMIA: A PATIENT SAFETY CASE REPORT

L. L. Llamas¹, A. Khan²

¹Department of Anesthesiology, University of Texas Health Science Center at San Antonio, San Antonio, Texas, ²School of Medicine, University of Texas Health Science Center at San Antonio, San Antonio, Texas

S-241 RATES AND PREDICTORS OF PERIOPERATIVE MORTALITY: PRELIMINARY DATA FROM THE NATIONAL ANESTHESIA CLINICAL OUTCOMES REGISTRY

E. L. Whitlock, J. R. Feiner, L. Chen

Department of Anesthesia and Perioperative Care, University of California, San Francisco, San Francisco, California

S-242 ASSOCIATION OF STOP-BANG SCORES OR OSA DIAGNOSIS WITH POSTOPERATIVE APNEA AND MINUTE VENTILATION IN AN OBESE SURGICAL POPULATION USING RESPIRATORY VOLUME MONITORING IN THE PACU

R. Schumann¹, J. Braynov², A. Gupta¹, A. P. Kwater³, I. Bonney¹, C. B. Howell³, E. G. Pivalizza³

¹Anesthesiology, Tufts Medical Center, Boston, Massachusetts, ²Research and Development, Respiratory Motion, Inc., Waltham, Massachusetts, ³Anesthesiology, University of Texas Medical School, Houston, Texas

S-243 COMPARISON OF TWO RISK SCALING SCORES FOR POSTOPERATIVE PULMONARY COMPLICATIONS

S. Okahara, M. Hayashi, K. Shimizu, H. Morimatsu

Department of Anesthesiology and Resuscitology, Okayama University Hospital, Okayama, Japan

S-244 INSERTION OF AN OROGASTRIC TUBE UNDER VISUAL GUIDANCE IN ANESTHETIZED PATIENTS. A PILOT STUDY

S. L. Rao

Anesthesiology, Penn State Hershey Medical Center, Hershey, Pennsylvania

S-245 DEVELOPMENT OF A COGNITIVE AID TO IMPROVE THE QUALITY OF TRANSITION OF CARE IN CRISIS SITUATIONS

A. Rebel¹, P. A. Sloan², R. Y. Fragneto², M. F. Lukens², D. Nguyen², Z. Hassan², R. M. Schell²

¹Anesthesiology / CCM, University of Kentucky, Lexington, Kentucky, ²Anesthesiology, University of Kentucky, Lexington, Kentucky

S-246 MONITORING MINUTE VENTILATION VERSUS RESPIRATORY RATE TO MEASURE THE ADEQUACY OF VENTILATION IN PATIENTS UNDERGOING UPPER ENDOSCOPIC PROCEDURES

K. Holley¹, D. Mathews¹, D. Ladd², P. Georgiadis³, H. Minasyan³, A. Shukla³, H. Schapiro¹

¹Anesthesiology, Fletcher Allen Health Care, University of Vermont College of Medicine, Burlington, Vermont, ²Nursing, West Virginia University, Morgantown, West Virginia, ³Medicine, University of Vermont College of Medicine, Burlington, Vermont

S-247 FIRST NATIONAL SURVEY OF PATIENT-CONTROLLED ANALGESIA HOSPITAL PRACTICES: GOOD NEWS AND BAD NEWS FOR PATIENT SAFETY

M. Wong

Patient Safety, Physician-Patient Alliance for Health & Safety, Lake Forest, Illinois

Regional Anesthesia 3

Abstracts in Poster Discussion Round: S-286 – S-292

Presenters in Attendance: 10:30 am – 12:00 pm

PR03-52

Poster Moderator: C. Mantilla, MD, PhD, Mayo Clinic, Rochester, Minnesota

S-286 DEXAMETHASONE AS AN ADJUNCT FOR BRACHIAL PLEXUS BLOCKADE: META-ANALYSIS

S. Arulkumar, I. Elnagar, C. Hamilton, C. Fox
Anesthesiology, LSUHSC, Shreveport, Louisiana

S-287 DIPHENHYDRAMINE BLOCKS RAT SCIATIC NERVE AND EXHIBITS A TOXIC EFFECT ON PC12 CELL

Y. Hung, C. Lee
Anesthesiology, Mackay Memorial Hospital, New Taipei City, Taiwan

S-288 THE USE OF IV PCA WITH OR WITHOUT EPIDURAL ANALGESIA DOES NOT AFFECT RECURRENCE FREE SURVIVAL OR OVERALL SURVIVAL WHEN COMPARED TO EPIDURAL ANALGESIA ALONE AFTER PANCREATIC CANCER SURGERY. A RETROSPECTIVE STUDY

I. C. Ifeanyi¹, J. Soliz¹, J. P. Cata¹, P. Sahai¹, L. Feng², M. Katz³, V. Gottumukkala¹
¹Department of Anesthesiology and Perioperative Medicine, University of Texas MD Anderson Cancer Center, Houston, Texas, ²Department of Biostatistics, University of Texas MD Anderson Cancer Center, Houston, Texas, ³Department of Surgical Oncology, University of Texas MD Anderson Cancer Center, Houston, Texas

S-289 THE EFFICACY OF ULTRASOUND-GUIDED SPERMATIC CORD BLOCK FOR SCROTAL SURGERY

T. Nakagawa, S. Omi, N. Kawamura, Y. Nagamura, K. Sato, K. Habuka
Anesthesia, Tokyo Metropolitan Hiroo Hospital, Tokyo, Japan

S-290 FEASIBILITY AND PERI-OPERATIVE PAIN RELIEVING EFFICACY OF ULTRASOUND GUIDED TRANSVERSUS ABDOMINIS PLANE BLOCK IN MORBID OBESE PATIENTS UNDERGOING LAPAROSCOPIC BARIATRIC SURGERY

A. A. Sherif¹, H. M. Koptan¹, S. M. Soliman²
¹Anesthesia, El-Menafia University, Kuwait, Kuwait, ²Anesthesia, Ein Shams University, Hadi Clinic, Kuwait, Kuwait

S-291 LONG-TERM EFFECT OF SCIATIC NERVE BLOCK WITH ROPIVACAINE MICROPARTICLES IN A RAT POSTOPERATIVE PAIN MODEL

F. Qi, H. Huang, C. Ding, Y. Guo
Department of Anesthesiology, Qilu Hospital of Shandong University, Jinan, China

S-292 TRANSVERSUS ABDOMINIS PLANE BLOCK TO AMELIORATE POSTOPERATIVE PAIN OUTCOMES AFTER LAPAROSCOPIC SURGERY: A META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS

M. E. Rodes, G. S. De Oliveira
Anesthesiology, Northwestern University, Chicago, Illinois

Cardiovascular Anesthesiology 4

Abstracts in Poster Discussion Round: S-76 – S-79

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

PR03-53

Poster Moderator: Q. C. Ott, MD, Beth Israel Deaconess Medical Center, Boston, Massachusetts

S-76 ACTIVITIES OF CARDIAC TISSUE MMP-2 AND -9 ARE REDUCED BY REMOTE ISCHEMIC PRECONDITIONING AND CORRELATE WITH SERUM CARDIAC TROPONIN T CONCENTRATIONS IN CARDIOSURGICAL PATIENTS

K. Zitta¹, P. Meybohm², B. Bein¹, M. Gruenewald¹, K. Zacharowski², M. Steinfa¹, M. Albrecht¹
¹Department of Anaesthesiology and Intensive Care Medicine, University Hospital Schleswig-Holstein, Kiel, Germany, ²Clinic of Anaesthesiology, Intensive Care Medicine and Pain Therapy, University Hospital Frankfurt, Frankfurt, Germany

S-77 PROPOFOL AMELIORATES HYPERGLYCEMIA-INDUCED CARDIAC HYPERTROPHY AND DYSFUNCTION VIA HEME OXYGENASE-1 / STAT3 SIGNALING PATHWAY IN RATS

J. Xu¹, Z. Xia¹, H. Li², Z. Xia²
¹Anaesthesiology, Wuhan University Ren min Hospital, Wuhan, China, ²Anaesthesiology, Department of Anesthesiology, The University of Hong Kong, Hong Kong SAR, China, Hong Kong, China

PR03-53 – continued

S-78 GENOME-WIDE ASSESSMENT FOR GENETIC VARIANTS ASSOCIATED WITH LONG-TERM HEART FAILURE AFTER CORONARY ARTERY BYPASS GRAFT SURGERY

A. A. Fox¹, M. Heydarpour², S. C. Body², C. D. Collard³, C. S. Barnett², J. G. Seidman⁴, C. E. Seidman⁵

¹Department of Anesthesiology and Pain Management, University of Texas Southwestern Medical Center, Dallas, Texas, ²Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women's Hospital, Boston, Massachusetts, ³Division of Cardiovascular Anesthesiology, Texas Heart Institute, Houston, Texas, ⁴Department of Genetics, Harvard Medical School, Boston, Massachusetts, ⁵Department of Internal Medicine, Division of Cardiology, Brigham and Women's Hospital, Boston, Massachusetts

S-79 ERYTHROPOIETIN IS A PREDICTOR OF RENAL AFTER AORTIC SURGERY

Y. Kouatli¹, S. N. Neill²

¹Anesthesiology, Henry Ford Health system, Detroit, Michigan, ²Anesthesiology, University of Michigan, Ann Arbor, Michigan

Challenging Case Reports 10

Abstracts in Poster Discussion Round: CC-73 – CC-79

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

PR03-54

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

CC-73 CHALLENGING CASE REPORT: FOCUSED ECHOCARDIOGRAPHY DURING GLUCAGON ADMINISTRATION TO DIAGNOSE BETA BLOCKER-INDUCED CARDIOMYOPATHY

A. Young¹, M. Merkel¹, J. Cooney², S. Heitner³, P. Schulman¹

¹Anesthesiology, Oregon Health & Science University, Portland, Oregon, ²Anesthesiology, OHSU, Portland, Oregon, ³Knight Cardiovascular Institute, Oregon Health & Science University, Portland, Oregon

CC-74 A MULTIDISCIPLINARY APPROACH TO A LVAD-ARREST ALGORITHM: A CASE REPORT AND AN INSTITUTIONS RESPONSE

E. S. Grawe¹, P. Colombo², H. Takayama³, S. Goswami¹

¹Department of Anesthesiology, Columbia University/ New York-Presbyterian Hospital, New York, New York, ²Department of Medicine, Columbia University/ New York-Presbyterian Hospital, New York, New York, ³Department of Surgery, Columbia University/ New York-Presbyterian Hospital, New York, New York

CC-75 ANTICIPATED DIFFICULT AIRWAY MANAGEMENT IN A CHILD WITH A SUPRAGLOTTIC MASS, A CASE REPORT

R. McLennan¹, R. M. Sloan², A. M. Reddy¹

¹Department of Anesthesiology, University of Kentucky, Lexington, Kentucky, ²Anesthesiology, University of Kentucky, Lexington, Kentucky

CC-76 ANESTHETIC MANAGEMENT OF THE RESECTION OF A METASTATIC NEUROENDOCRINE TUMOR: A CHALLENGING CASE REPORT

N. Patel¹, J. Wenzel¹, J. W. Heitz²

¹Anesthesiology, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania, ²Anesthesiology, Thomas Jefferson University, Philadelphia, Pennsylvania

CC-77 COMBINATION PERIPHERAL NERVE BLOCKS FOR POSTOPERATIVE ANALGESIA IN TWO CHILDREN UNDERGOING VENTRICULAR SHUNT REVISION

M. King, T. A. Anderson

Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

CC-78 ??? LARGE VENTILATOR TIDAL VOLUMES AND POSTOPERATIVE HYPOXEMIA

B. Maryak, B. Harrison

Department of Anesthesia, Mayo Clinic Florida, Jacksonville, Florida

CC-79 AIRWAY MANAGEMENT AND ANESTHESIA TECHNIQUE FOR PATIENT WITH DISRUPTED TRACHEAL ANASTOMOSIS AND MULTIPLE FALSE PASSAGES

S. J. Kim, A. I. Levine

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

Patient Safety 5

Abstracts in Poster Discussion Round: S-248 – S-253

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

PR03-55

Poster Moderator: P. Picton, MD, MRCP, FRCA, *University of Michigan, Ann Arbor, Michigan*

S-248 GLUCOCORTICOID PRIMING ENHANCES MACROPHAGE MIGRATION INTO EXPERIMENTAL WOUND TISSUE IN HUMANS

M. Yeager¹, P. Guyre², P. A. Pioli²

¹Anesthesiology, Dartmouth Hitchcock Medical Center, Lebanon, NH, ²Physiology, Geisel School of Medicine at Dartmouth, Lebanon, New Hampshire

S-249 COMPARATIVE CHANGES IN PSYCHOLOGICAL MOOD AND STRESS AFTER DAYTIME PRACTICE IN CERTIFIED ANESTHESIOLOGISTS AND RESIDENTS

T. Oshima¹, J. Hirashima¹, M. Yokota¹

¹Anesthesiology, Cancer Institute Hospital, Tokyo, Japan

S-250 PHENOTYPIC VARIATION IN ANESTHESIA WORK AREA S. AUREUS TRANSMISSION

J. C. Peters¹, R. W. Loftus¹, N. W. Shworak², H. M. Patel¹

¹Anesthesiology, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, ²Medicine, Pharmacology and Toxicology, Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire

PR03-55 – continued

S-251 ADD-ONE ASA CLASS: REDEFINING THE ASA CLASSIFICATION SYSTEM TO FORMALLY INCORPORATE FUNCTIONAL DEPENDENCE TO BETTER PREDICT POSTOPERATIVE MORTALITY

O. Visnjevac, S. F. Davari Farid, J. Lee, L. Pourafkari, N. D. Nader
Anesthesiology and Pain Medicine, State University of New York:
Buffalo, Buffalo, New York

S-252 TOO MANY COOKS IN THE KITCHEN? A COHORT STUDY OF ANESTHESIA PROVIDER VOLUME AND RISK OF POSTOPERATIVE COMPLICATIONS

J. A. Hyder¹, J. K. Bohman¹, D. J. Kor¹, A. Subramanian¹,
E. A. Bittner², B. J. Narr¹, V. M. Montori³
¹Anesthesiology, Mayo Clinic, Rochester, MN, ²Anesthesia, Critical
Care and Pain Medicine, Massachusetts General Hospital, Boston,
Massachusetts, ³Endocrinology, Mayo Clinic, Rochester, Minnesota

S-253 EFFECT OF PREOPERATIVE ORAL HYDRATION AND CARBOHYDRATE LOAD ON GASTRIC VOLUME AND PH IN PATIENTS AWAITING SURGERY

S. L. Rao¹, J. A. Baer¹, N. Rajan²
¹Department of Anesthesiology, Penn State Hershey Medical Center,
Hershey, PA, ²Anesthesiology, Penn State Hershey Medical Center,
Hershey, Pennsylvania

Technology, Computing and Simulation 3

Abstracts in Poster Discussion Round: S-314 – S-319

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

PR03-56

Poster Moderator: J. Mitchell, MD, Beth Israel Deaconess Medical
Center, Boston, Massachusetts

S-314 A FEASIBILITY STUDY TO DEMONSTRATE THE USE OF IN-SITU SIMULATION TO IMPROVE SAFETY IN THE OFFICE-BASED SETTING

F. Shapiro¹, D. Feinstein¹, R. D. Urman²
¹Anesthesiology, Beth Israel Deaconess Medical Center, Boston,
Massachusetts, ²Anesthesiology, Brigham and Women's Hospital,
Boston, Massachusetts

S-315 ACCURACY AND CLINICAL RELEVANCE OF NON-INVASIVE RESPIRATORY VOLUME MEASUREMENTS IN OBESE SURGICAL PATIENTS

R. Schumann¹, C. M. MacNabb², Q. Al Hassan¹, I. Bonney¹,
A. P. Kwater³, D. Shoham³, E. G. Pivalizza³
¹Anesthesiology, Tufts Medical Center, Boston, Massachusetts,
²R & D, Respiratory Motion Inc, Waltham, Massachusetts,
³Anesthesiology, University of Texas Medical School, Houston, Texas

S-316 THE VALIDITY OF BISPECTRAL INDEX VALUES OBTAINED FROM A LATEROFACIAL ELECTRODES

H. Yogo
Anesthesiology, Tomishiro Central Hospital, Tomigusuku, Japan

S-317 A THEORETICAL ANALYSIS OF THE EFFECT OF EXTRA-CORPOREAL MEMBRANE OXYGENATION THERAPY ON PULMONARY ARTERIAL PRESSURE: IMPLICATIONS FOR BRIDGE TO LUNG TRANSPLANTATION

M. Dickstein¹, M. Bacchetta²
¹Anesthesiology, Columbia University, New York, New York,
²Surgery, Columbia University, New York, New York

S-318 NOVEL METHOD OF BLOOD VESSEL VISUALIZATION AND CANNULATION USING AUGMENTED REALITY

B. D. Fronk, D. R. Solanki, V. R. Koyyalagunta
Anesthesiology, University of Texas Medical Branch, Galveston, Texas

S-319 CONTROL OF BURST-SUPPRESSION IN A RODENT MODEL OF MEDICAL COMA USING A BRAIN-MACHINE INTERFACE

M. Shanechi¹, J. Chemali², M. Liberman², K. Solt², E. N. Brown²
¹Electrical and Computer Engineering, Cornell University,
Ithaca, New York, ²Anesthesia, Critical Care and Pain Medicine,
Massachusetts General Hospital, Boston, Massachusetts

Neuroscience in Anesthesiology and Perioperative Medicine 7

Abstracts in Poster Discussion Round: S-176 – S-181

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

PR03-58

Poster Moderator: M. Haile, MD, New York University Medical
Center, New York, New York

S-176 SOLUBLE EPOXIDE HYDROLASE POLYMORPHISMS ARE ASSOCIATED WITH OUTCOME AFTER ANEURYSMAL SUBARACHNOID HEMORRHAGE

R. Martini¹, J. Ward¹, D. Siler¹, J. M. Eastman¹, J. Nelson¹,
N. Alkayed¹, J. Cetas²
¹Anesthesiology and Perioperative Medicine, Oregon Health and
Science University, Portland, Oregon, ²Neurological Surgery, Oregon
Health and Science University, Portland, Oregon

S-177 INFLAMMATION INCREASES NEURONAL SENSITIVITY TO GENERAL ANESTHETICS IN MICE

S. Avramescu¹, W. T. To², D. Wang³, A. Penna³, I. Lecker³, B. A. Orser⁴
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Health Sciences Centre, Ontario, Canada, ²Department of Physiology,
University of Toronto, Toronto, Ontario, Canada, ³Department of
Physiology, University of Toronto, University of Toronto, Ontario,
Canada, ⁴Department of Anesthesia and Physiology, University of
Toronto, University of Toronto, Ontario, Canada

S-178 OPTOGENETIC DISSECTION OF THE NEURONAL CIRCUITS OF THE MOUSE RESPIRATORY NETWORK

M. G. Fortuna¹, S. Kugler², S. Hülsmann¹
¹Neurophysiology, University Medical Center Gottingen, Gottingen,
Germany, ²Neurology, University Medical Center Gottingen,
Gottingen, Germany

PR03-58 – continued

S-179 DIFFERENTIAL NEURONAL DYNAMICS IN SOMATOSENSORY VERSUS HIGHER-ORDER CORTICES DURING RECOVERY FROM PROPOFOL ANESTHESIA IN PRIMATES

Y. Ishizawa¹, S. Pate², O. J. Ahmed³, D. Sierra-Mercado², E. N. Brown¹

¹Anesthesia, Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts, ²Neurosurgery, Massachusetts General Hospital, Boston, Massachusetts, ³Neurology, Massachusetts General Hospital, Boston, Massachusetts

PR03-58 – continued

S-180 MATERNAL-FETAL ANESTHESIA AND FETAL NEUROTOXICITY USING THE OVINE MODEL

T. Olutoye¹, F. Sheikh², I. J. Zamora³, A. Akinkuot², L. C. Yu⁴, A. M. Adesina⁵, O. Olutoye²

¹Anesthesiology & Pediatrics, Texas Children's Hospital, Baylor College of Medicine, Houston, Texas, ²Surgery, Texas Children's Hospital, Baylor College of Medicine, Houston, Texas, ³Surgery, Baylor College of Medicine, Houston, Texas, ⁴Surgery, Baylor College of Medicine, Texas Children's Hospital, Houston, Texas, ⁵Pathology, Texas Children's Hospital, Baylor College of Medicine, Houston, Texas

S-181 MIDAZOLAM INCREASES TAU PHOSPHORYLATION IN THE MOUSE HIPPOCAMPUS

R. Whittington¹, L. Virag², I. Poitras³, R. Q. Li², E. Plane³

¹Anesthesiology, Columbia University Medical Center, New York, NY, ²Department of Anesthesiology, Columbia University- College of Physicians and Surgeons, New York, NY, ³Département de Neurosciences, Centre Hospitalier de l'Université Laval, Québec City, QC, Canada

S-295 ANALGESIA AFTER TOTAL HIP ARTHROPLASTY: PERIARTICULAR INJECTION VERSUS EPIDURAL PCA

K. M. Jules-Elysee¹, A. K. Goon¹, G. H. Westrich², Y. Lin¹, D. E. Padgett², R. L. Kahn¹, A. S. Ranawat²

¹Anesthesiology, Hospital for Special Surgery, New York, New York, ²Orthopedic Surgery, Hospital for Special Surgery, New York, New York

S-296 INCIDENCE OF DEVASTATING COMPLICATIONS OF EPIDURAL ANALGESIA IN THE UNITED STATES, 1998 - 2010: A PERSPECTIVE FROM A MEGA DATA ANALYSIS

E. B. Rosero¹, G. P. Joshi²

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S-297 HEMIDIAPHRAGMATIC PARALYSIS FOLLOWING ULTRASOUND-GUIDED SUPRACLAVICULAR VERSUS INFRACLAVICULAR BRACHIAL PLEXUS BLOCKADE: A RANDOMIZED CLINICAL TRIAL

S. D. Petrar¹, M. E. Seltenrich², S. J. Head², S. K. Schwarz²

¹Department of Anesthesia, St. Paul's Hospital, Vancouver, British Columbia, Canada, ²Department of Anesthesiology, Pharmacology & Therapeutics, The University of British Columbia, Vancouver, British Columbia, Canada

Regional Anesthesia 4

Abstracts in Poster Discussion Round: S-293 – S-297

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

PR03-59

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

S-293 RETROSPECTIVE ANALYSIS OF OUTCOMES OF A DEDICATED REGIONAL ANESTHESIA ACUTE PAIN TEAM MODEL

A. Dhade, L. Collisimo, H. Kroll

Anesthesia, Henry Ford Hospital, Detroit, Michigan

S-294 WHICH CONCENTRATION DO YOU CHOOSE 0.2% ROPIVACAINE OR 0.375% ROPIVACAINE? THE COMPARISON OF THE ANALGESIC EFFECT OF THE CONTINUOUS GLUTEAL SCIATIC NERVE BLOCK AFTER RECONSTRUCTIVE SURGERY OF ANKLE AND FOOT

T. Mae¹, N. Haruyama¹, S. Nishizaka², K. Shinohara¹, T. Arashi¹, T. Yamasaki¹

¹Anesthesiology, Tokyo Metropolitan Police Hospital, Tokyo, Japan, ²Anesthesiology, Tokyo Women's Medical University, Tokyo, Japan

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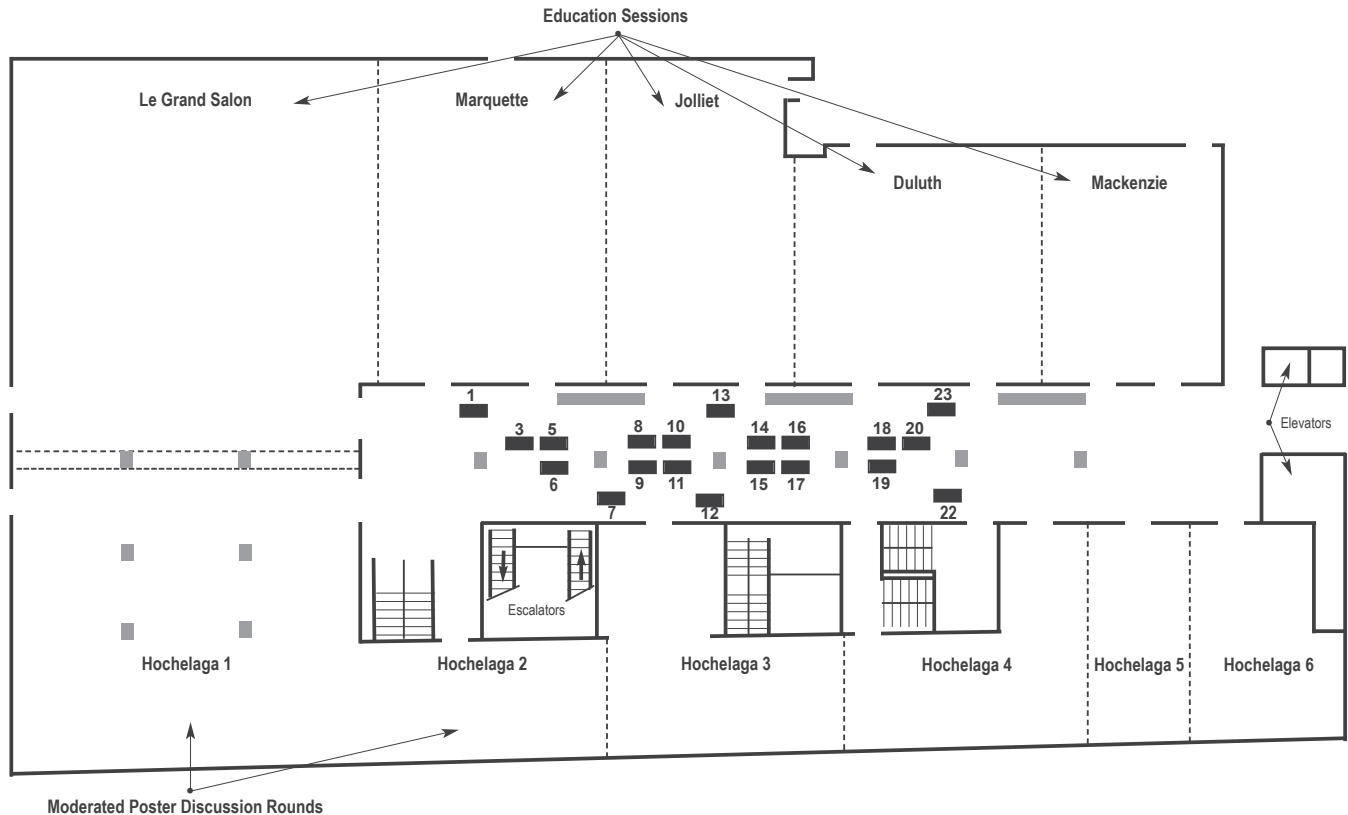
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IARS 2014 Annual Meeting Exhibit Floor Plan Convention Level, Fairmont The Queen Elizabeth Hotel



Moderated Poster Discussion Rounds

- | | | | |
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| 1 Elsevier | 8, 10 Respiratory Motion | 14 Edwards Lifesciences (Canada) Inc. | 19 Advanced Infusion |
| 3 Hospira | 9 3M Canada | 15, 17 Wolters Kluwer Health | 20 Piramal Critical Care |
| 5 Verathon Medical | 11 American Board of Anesthesiology | 16 Parker Medical | 22 Clear Guide Medical |
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Tabletop Exhibit Information

Saturday, May 17 • 7:00 am – 2:00 pm
 Sunday–Monday, May 18–19 • 6:00 am – 2:00 pm

SOCIETY TABLETOP EXHIBITS

LOCATION

The American Board of Anesthesiology.....	Table #11
American Society of Anesthesiologists.....	Table #23
Association of University Anesthesiologists.....	Resource Center
International Society of Anaesthetic Pharmacology (ISAP).....	Resource Center
Society for Obstetric Anesthesia and Perinatology (SOAP).....	Resource Center
Society for Technology in Anesthesia (STA).....	Resource Center
Society for Critical Care Anesthesiologists (SOCCA).....	Resource Center
Society of Anesthesia and Sleep Medicine (SASM).....	Resource Center

The American Board of Anesthesiology11



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American Society of Anesthesiologists23



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International Society of Anaesthetic Pharmacology (ISAP) Resource Center



414-755-6296
www.isaponline.org

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414-389-8611
www.soap.org

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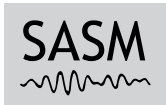
Society for Technology in Anesthesia (STA) Resource Center



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Society of Anesthesia and Sleep Medicine (SASM) Resource Center



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Anesthesia Business Consultants, LLC 6



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Clear Guide Medical 22



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Edwards Lifesciences (Canada) Inc. 14



Edwards

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Hospira **Table 3**



224-212-2000 • www.hospira.com

Hospira is the world's leading provider of injectable drugs and infusion technologies. Through its broad, integrated portfolio, Hospira is uniquely positioned to Advance Wellness™ by improving patient and caregiver safety while reducing healthcare costs. The company is headquartered in Lake Forest, Illinois, and has approximately 14,000 employees.

Masimo **Table 18**



949-297-7000 • www.masimo.com

Masimo is a global medical technology company that develops and manufactures innovative non-invasive patient monitoring technologies, including medical devices and a wide array of sensors. A key medical technology innovator, Masimo is responsible for the invention of award-winning non-invasive technologies that are revolutionizing patient monitoring.

Micropore Inc. **Table 12**



302-731-4100 • www.spiralith.com

Micropore manufactures solid, non-dusting CO2 absorbents for life support applications in the medical, submarine, military diving, mine safety and spacecraft markets. The company makes the only lithium hydroxide absorbent used in anesthesia workstations. Manufactured in the US, the anesthesia absorbents are fully recycled at the company's facility in Maryland.

Parker Medical **Table 16**



303-799-1990
www.parkermedical.com

Parker Medical develops and markets innovative airway management products designed to facilitate rapid, easy, accurate and safe intubations. This year we will be featuring the expanded line of our award-winning flex-tip endotracheal tube which recently was granted a 510k by the FDA for endotracheal intubations, as well as our directional stylet and our disposable, silicone, laryngeal mask device.

Tabletop Exhibit Information

Saturday, May 17 • 7:00 am – 2:00 pm
Sunday–Monday, May 18–19 • 6:00 am – 2:00 pm

TECHNICAL TABLETOP EXHIBITS

Piramal Critical Care Table 20



610-974-9760 • www.piramal.com

Piramal Critical Care is a business unit of Piramal Healthcare Limited. Our worldwide product portfolio includes an extensive range of inhalation anesthetics like Sevoflurane, Halothane, Isoflurane, and Enflurane. We are committed to providing high quality products and services to fulfill the unmet medical needs in critical care.

Respiratory Motion Tables 8, 10



781-373-1636 • www.respiratorymotion.com

Respiratory Motion, Inc. is the developer of a respiratory volume monitor that is a non-invasive, continuous, point of care system that will provide real-time quantitative monitoring of Minute Ventilation, TV, and RR. This is the first clinically useful monitor answering the ASA guidelines. It can assist clinicians in monitoring breathing in patients with potential respiratory compromise, and as advanced by the ASA, continuous monitoring of ventilation can improve patient safety and reduce costs.

Teleflex Table 13



800-523-8446 • www.teleflex.com

At Teleflex we believe in improving the health and quality of people's lives. We apply purpose driven innovation – a relentless pursuit of identifying unmet clinical needs – in a way that helps benefit patients, providers and society. We create products that offer practical airway management solutions that help reduce the risk of airway related complications and improve procedural efficiencies. Our Rusch® and LMA® branded products include laryngeal mask airways, endotracheal tubes, tracheostomy tubes, oral and nasal airways, anesthesia circuits, masks and bags.

Verathon Medical Table 5



425-867-1348 • www.verathon.com

Verathon's video laryngoscopes are designed to provide a clear, real-time view of the airway and tube placement, enabling quick intubation. These systems are configured for an array of clinical settings, from EMS to the OR to the Emergency Department and more. The new AVL defines advanced video laryngoscopy, with airway views in DVD clarity, and real-time recording. Four configurations let you choose the right tool for your patients, from preterm to morbidly obese.

Wolters Kluwer Health Tables 15, 17



215-521-8300 • www.lww.com

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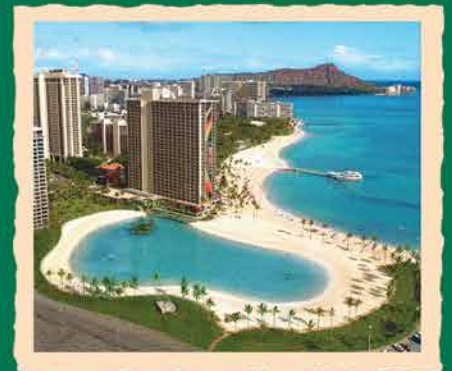
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