IARS 2012
Annual Meeting
Friday, May 18 to Monday, May 21
Marriott Copley Place • Boston, Massachusetts

International Science Symposium
Mechanisms of Anesthesia
Friday, May 18

Final Program
May 18, 2012

Welcome to the IARS 2012 Annual Meeting in the historic city of Boston, where in 1846 Dr. William Thomas Green Morton first publicly demonstrated the efficacy of ether anesthesia.

Dr. Colleen G. Koch and Dr. Keith A. (Tony) Jones, Program Chairs for this year’s IARS Annual Meeting, have planned an exciting program with an exceptional mix of education featuring cutting-edge topics, internationally recognized presenters, and opportunities to interact with colleagues and anesthesiology thought leaders.

Join us on Friday, May 18, at 8:00 am as we kick-off the Annual Meeting with an official Welcome and Opening Session featuring the T.H. Seldon Memorial Lecture presented by noted safety expert James P. Bagian, MD, PE. Dr. Bagian is a Fellow of the Aerospace Medical Association, and a member of the National Academy of Engineering and the Institute of Medicine. Dr. Bagian’s topic is Patient Safety: Anesthesia Can Lead the Way.

The IARS International Science Symposium, now in its fifth year, will follow at 11:30 am on Friday. The focus of this symposium is Mechanisms of Anesthesia.

We are also introducing two new symposia this year:

• The Resident Symposium, taking place on Saturday, May 19, 8:00 am will focus on Resident Education and Advancement and feature a Best of Resident Oral Abstract Judging Session.

• A Clinical Research Symposium, organized by the European Society of Anaesthesiology: The Role of Specialist Societies in Clinical Outcomes Research: How Can They Take a Lead will take place on Sunday, May 20, at 9:00 am.

As you page through this Program Book you will find information about the 27 Review Course Lectures, 18 Panels, many of which are sponsored and presented by our affiliated subspecialty anesthesia societies, and Moderated Poster Rounds in 21 topic areas. You’ll also find information about 15 Problem-Based Learning Discussions and 3 Hands-On Workshops for which pre-registration was required. Be sure to save time to visit the Scientific Exhibits and Industry Exhibits to round out your educational experience.

We’ve also planned two special functions for you to relax and unwind, renew old acquaintances and build new relationships. Don’t miss the complimentary (for meeting attendees) IARS Networking Reception on Saturday, May 19, from 6:30 pm – 7:30 pm at the Marriott where you will be able to meet and mingle with IARS leaders, Anesthesia & Analgesia Editors, and your colleagues and friends. And be sure to join us at the IARS ‘Party with a Purpose’ fundraiser to support anesthesia research on Sunday, May 20 at 6:30 pm at the Westin Copley Place (tickets on sale at the Registration Desk).

We look forward to greeting you in Boston and are confident you will find the IARS 2012 Annual Meeting and education program to be rewarding and enjoyable. Thank you for being here.

Cheers!

J.G. Ramsay, MD
Chair, IARS Board of Trustees
Welcome to the IARS 2012 Annual Meeting and the City of Boston!

Over the next four days you’ll have an opportunity to attend outstanding education sessions including 27 Review Course Lectures featuring presentations by the leading experts in their topic field, 18 Panel Presentations with cutting-edge topics in subspecialty fields, Interactive Workshops providing one-on-one demonstrations, Problem-Based Learning Discussions with challenging case-based scenarios, three days of Moderated Abstract Poster Sessions and tabletop exhibits introducing the latest innovations, products and cutting edge techniques.

Featured Sessions Include:

- **T.H. SELDON MEMORIAL LECTURE • FRIDAY, MAY 18, 8:30 am**
  Join James P. Bagian, MD, PE, for the Opening Session – Patient Safety: Anesthesia Can Lead the Way

- **INTERNATIONAL SCIENCE SYMPOSIUM • FRIDAY, MAY 18, 11:30 am**
  Presenting a forum for cutting edge science and how it affects the anesthesiology specialty the 2012 Focus of the Symposium will be on the Mechanisms of Anesthesia.

- **RESIDENT SYMPOSIUM • SATURDAY, MAY 19, 8:00 am** – A session dedicated to Resident education and advancement including a Best of Resident Oral Abstract Judging Session

- **THE CLINICAL RESEARCH SYMPOSIUM • SUNDAY, MAY 20, 9:00 am** – At this ESA supported session, you’ll learn about The Role of Specialist Societies in Clinical Outcomes Research and How Can They Take a Lead?

Special Events at the IARS Annual Meeting:

Join your colleagues and network with the Trustees of the IARS and Editorial Board of Anesthesia & Analgesia at the IARS NETWORKING RECEPTION on Saturday, May 19, 6:30 – 7:30 pm.

Relax and unwind, build new relationships, renew old acquaintances. Cocktails and hors d’oeuvres will be served. We look forward to seeing you there!

‘PARTY WITH A PURPOSE’ DURING THE 2012 ANNUAL MEETING AT THE IARS FUNDRAISING DINNER on Sunday, May 20, 6:30 – 10:00 pm at the Westin Copley Place. Help raise awareness of and support for anesthesia research while you enjoy a fun filled evening with good food, live music, and entertainment. Tickets can be purchased at the IARS registration desk.

We hope you’ll enjoy your time spent in the city that is often called the ‘Cradle of American History’ Tour the first college established in North America – Harvard University, founded in 1636, visit the Ether Dome, the site where Dr. William Thomas Green Morton first publicly demonstrated anesthesia, or while in town be sure to visit Beacon Street and the bar where everybody knows your name – ‘Cheers!’
T.H. Seldon Memorial Lecture

Opening Session

Friday, May 18
8:30 - 9:30 am

Patient Safety: Anesthesia Can Lead the Way

James P. Bagian, MD, PE
Director of the Center for Healthcare Engineering and Patient Safety
Professor, Medical School and the College of Engineering,
University of Michigan
Ann Arbor, Michigan

Dr. James P. Bagian has extensive experience in the fields of human factors, aviation, and patient safety. Dr. Bagian is the Director of the Center for Healthcare Engineering and Patient Safety and is a Professor in the Medical School and the College of Engineering at the University of Michigan. Previously he served as the first and founding director of the VA National Center for Patient Safety and as the VA's first Chief Patient Safety Officer where he developed numerous patient safety related tools and programs that have been adopted nationally and internationally. A NASA astronaut for over 15 years, he is a veteran of two Space Shuttle missions including the lead mission specialist for the first dedicated Life Sciences Spacelab mission. Following the 1986 Challenger space-shuttle explosion he dove and supervised the capsule’s recovery from the ocean floor and was one of the leaders of the development of the Space Shuttle Escape System. He also served as the Chief Flight Surgeon and Medical Consultant for the Space Shuttle Columbia Accident Investigation Board. Dr. Bagian holds a B.S. degree in mechanical engineering from Drexel University and a doctorate in medicine from Thomas Jefferson University. He is a Fellow of the Aerospace Medical Association, a member of the National Academy of Engineering, the Institute of Medicine, and has received numerous awards for his work in the field of patient safety and aerospace medicine.

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 Seldon Memorial Lecture in 1992 after Dr. Seldon’s death in 1991.

IARS 2012 Annual Meeting Program Co-Chairs

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IARS 2012 International Science Symposium Planning Committee Co-Chairs

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IARS Board of Trustees

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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 IARS 2012 Annual Meeting addresses anesthesiology practice gaps in all areas of anesthesiology practice and pain management and supports physician behavior changes and improved patient outcomes.

Target Audience
The IARS 2012 Annual Meeting CME activity is designed to address the continuing medical education needs of anesthesiologists, anesthesiologists in training, anesthesia researchers, and allied health professionals who conduct research, practice or intend to practice in any area of general anesthesia, subspecialty anesthesia, or pain management.

Educational Objectives
As a result of participation in this CME activity learners should be able to:
- Recognize the current state of emerging knowledge and practice patterns and assess the relevance for their professional practice;
- Incorporate new knowledge from advances in anesthesiology practice into their professional practice areas;
- Recognize gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

Accreditation
This educational activity was planned and produced in accordance with the ACCME Essentials and Standards relating to continuing medical education. The International Anesthesia Research Society (IARS) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Continuing Medical Education Credit
The IARS designates this educational activity for a maximum of 32 AMA PRA Category 1 Credits.™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

The American Medical Association (AMA) has determined that physicians not licensed in the United States who participate in this CME activity are eligible for AMA Physician's Recognition Award Category credits.

Claiming CME Credit
The IARS will provide online program evaluation and session tracking to support claiming CME credit. In compliance with ACCME guidelines, credit may be claimed beginning on the day following completion of a session. Physicians may complete session evaluations online during the IARS 2012 Annual Meeting or after the event, and may print CME certificates after the event from any computer with an internet connection. Printers will not be available onsite. Visit the Cyber Center to access the online CME evaluation. Credit for the IARS 2012 Annual Meeting can be claimed online at www.iars.org/congress through May 18, 2015.

Maintenance of Certification in Anesthesiology
For the Maintenance of Certification in Anesthesiology Program® (MOCA®) you will be asked to enter your ABA ID, after completing your session evaluations, into the online credit reporting system mentioned above. The IARS will forward your CME credits to the ABA following the Annual Meeting on a quarterly basis (March, June, September and December).

Disclosures
The IARS complies with ACCME Essential Areas, Standards, and Policies regarding industry support of CME activities. The IARS has implemented policies and practices with respect to the planning, implementation, and presentation of this activity to identify and resolve potential conflicts of interest for all persons in a position to control content. Disclosure information is printed in the Final Program and available online at www.iars.org/congress after May 11, 2012.

About the IARS
The International Anesthesia Research Society is a nonpolitical, not-for-profit medical society founded in 1922 to advance and support scientific research and education related to anesthesia, and to improve patient care through basic research. The IARS contributes nearly $1 million annually to fund anesthesia research; provides a forum for anesthesiology leaders to share information and ideas; maintains a worldwide membership of more than 15,000 physicians, physician residents, and others with doctoral degrees, as well as health professionals in anesthesia-related practice; sponsors the SmartTots initiative in partnership with the FDA; and publishes the monthly Anesthesia & Analgesia journal in print and online.
INTERNATIONAL SCIENCE SYMPOSIUM

MECHANISMS OF ANESTHESIA

FRIDAY, MAY 18 • 11:30 AM – 4:15 PM

SYMPOSIUM TIMELINE

11:30 am – 12:00 pm  Lunch and Introduction
12:00 pm – 4:15 pm  Presentations and Panel Discussion

MODERATOR

Emery N. Brown, MD, PhD
Professor of Computational Neuroscience and Health Sciences and Technology,
Department of Brain and Cognitive Sciences, MIT-Harvard Division of Health Science and Technology
Massachusetts Institute of Technology, Cambridge, Massachusetts
Warren M. Zapol Professor of Anaesthesia, Harvard Medical School
Department of Anesthesia, Critical Care and Pain Medicine
Massachusetts General Hospital, Boston, Massachusetts

PANEL PRESENTERS

CORTICAL FEEDBACK AND GENERAL ANESTHESIA
George A. Mashour, MD, PhD
Associate Chair for Faculty Affairs
Director, Division of Neuroanesthesiology
Assistant Professor of Anesthesiology & Neurosurgery
Faculty, Neuroscience Graduate Program
University of Michigan Medical School
Ann Arbor, Michigan

NEUROPHYSIOLOGICAL CORRELATES OF UNCONSCIOUSNESS UNDER GENERAL ANESTHESIA
Patrick Purdon, PhD
Instructor of Anaesthesia
Harvard Medical School
Assistant in Bioengineering
Department of Anesthesia and Critical Care
Massachusetts General Hospital
Boston, Massachusetts

ANESTHETIC AMNESIA: INSIGHTS FROM HUMAN SUBJECT RESEARCH
Kane O. Pryor, MD
Assistant Professor of Anesthesiology
Assistant Professor of Anesthesiology in Psychiatry
Director of Clinical Research
Department of Anesthesiology
Weill Cornell Medical College
New York, New York

ACTIVE REANIMATION FROM GENERAL ANESTHESIA
Ken Solt, MD
Assistant Professor of Anaesthesia
Harvard Medical School
Department of Anesthesia, Critical Care and Pain Medicine
Massachusetts General Hospital
Boston, Massachusetts
### Daily Schedule At-a-Glance

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<th>Time</th>
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<td>6:00 am – 5:30 pm</td>
<td>Registration</td>
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<td>7:00 am – 8:00 am</td>
<td>Problem-Based Learning Discussions</td>
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<td>8:00 am – 8:30 am</td>
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<td>T.H. Seldon Memorial Lecture Opening General Session</td>
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<td>10:00 am – 5:00 pm</td>
<td>Concurrent Education Sessions</td>
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<td>• Review Course Lectures</td>
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<td>• Moderated Poster Discussion Rounds</td>
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<td>IARS International Science Symposium</td>
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7:00 am - 1:00 pm Tabletop Exhibits

### Problem-Based Learning Discussions

#### PBLD-01 • 7:00 – 8:00 am

**Pediatric Trauma**

**Manon Hache, MD,** Assistant Professor of Anesthesiology, Division of Pediatric Anesthesia; Director, Pediatric Trauma Anesthesia, Columbia University Medical Center, Morgan Stanley Children’s Hospital of New York-Presbyterian, New York, New York

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the management of pediatric trauma patients presenting with unstable or uncleared c-spine injuries; (2) Manage the pediatric patient with massive transfusion requirements; and (3) Describe the latest guidelines for the management of severe traumatic brain injury.

#### PBLD-02 • 7:00 – 8:00 am

**Beyond the SCIP Bundle: Emerging Concepts in Infection Prevention for the Anesthesiologist**

**Moderator:** Randy W. Loftus, MD, Assistant Professor of Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Review and evaluate the relative roles of healthcare providers, the environment, and patients in the process of intraoperative bacterial transmission and infection development; (2) Emphasize the patient role in between and within operative case bacterial transmission and infection development; (3) Discuss the efficacy of current prophylactic antibiotic strategies for coverage of bacterial colonization and patient transmission events; (4) Identify the limitations of the SCIP bundle for infection prevention; and (5) Know the importance of an evidence-based multimodal program for infection prevention.

#### PBLD-03 • 7:00 – 8:00 am

**Massive Obstetric Hemorrhage, Blood Conservation Strategies, New Therapeutic Options, and Massive Transfusion Protocol**

**Moderator:** Ashutosh Wali, MD, FFARCSI, Associate Professor of Anesthesiology, Associate Professor of Obstetrics and Gynecology, Director, Advanced Airway Management, Baylor College of Medicine, Houston, Texas

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Describe the common causes of antepartum hemorrhage and postpartum hemorrhage; (2) Discuss drug therapy for management of uterine atony, which is the commonest cause of postpartum hemorrhage; (3) Discuss blood conservation techniques for massive obstetric hemorrhage; (4) Describe the role of recombinant factor VIIa and massive transfusion protocol in peripartum hemorrhage; and (5) Discuss novel surgical options following massive obstetric hemorrhage.

Sessions and presenters listed are as of press time and subject to change.

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Friday, May 18, 2012
IARS WELCOME AND OPENING GENERAL SESSION
8:00 – 8:30 am

8:30 – 9:30 am

T.H. SELDON MEMORIAL LECTURE
PATIENT SAFETY: ANESTHESIA CAN LEAD THE WAY

James P. Bagian, MD, PE
Director of the Center for Healthcare Engineering and Patient Safety
Professor, Medical School and the College of Engineering,
University of Michigan
Ann Arbor, Michigan

Patient safety will be discussed from the perspective of its underlying challenges and with particular emphasis on the approaches and tools that can be employed to deal with these challenges. Numerous real world examples will be used from not only healthcare but also aviation and other fields of endeavor.

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe the goal of patient safety; (2) Describe the importance of close calls in identifying patient safety vulnerabilities; (3) Identify the value of a non-punitive approach to problem identification and resolution; (4) Describe the value of clearly defining what activities are blameworthy; (5) Describe the role that leadership at all levels plays in the institution of an effective patient safety program; and (6) Identify strategies for prioritizing and ameliorating patient safety vulnerabilities.

● Review Course Lectures

RCL-01 • 10:00 – 10:55 am
NEUROANESTHESIA: MYTHS AND MYSTERIES FOR THE OCCASIONAL NEUROANESTHESIOLOGIST

Presenter: Gregory Crosby, MD, Associate Professor, Harvard Medical School, Department of Anesthesiology, Brigham and Women’s Hospital, Boston, Massachusetts

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Explain how, why, and when physiologic management (blood pressure, glucose, fluids, and ventilation) differs for a neurosurgical patient; (2) Recognize what is special and what isn’t about anesthetic choices; (3) Differentiate between common neurophysiologic monitoring modalities; and (4) Discuss the current status of “brain protection”.

RCL-02 • 11:00 – 11:55 am
TEVAR – PERIOPERATIVE MANAGEMENT AND OUTCOMES

Presenter: Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS, Distinguished University Professor Chair/Chief, Department of Anesthesia and Perioperative Medicine, London Health Sciences Centre and St. Joseph Health Care, University of Western Ontario, London, Ontario, Canada

LEARNER OBJECTIVES: After participating in this activity, the learner will have: (1) Reviewed the pathology of thoracic aortic aneurysm disease; (2) Discussed the anesthetic consideration and perioperative management of TEVAR; and (3) Reviewed the perioperative outcomes of TEVAR and open surgery.

RCL-03 • 1:00 – 1:55 pm
POSTOPERATIVE DELIRIUM: DIAGNOSIS AND MANAGEMENT STRATEGIES

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) Identify and characterize the clinical presentation of postoperative delirium; (2) Review the epidemiology of postoperative and ICU delirium, including incidence, definition, and risk factors; (3) Identify current evidence-based strategies for minimizing and/or treating delirium; and (4) Characterize difficulties and challenges in measuring and treating postoperative and ICU delirium.
● Review Course Lectures — continued

RCL-04 • 2:00 – 2:55 pm

TRALI: AN EVER PRESENT DANGER

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

LEARNER OBJECTIVES: After participating in this activity, the learner will have: (1) Reviewed recent data on the prevalence of Transfusion Related Acute Lung Injury; (2) Examined the proposed mechanisms for the development of TRALI; and (3) Discussed data on lung injury as it relates to perioperative red cell and component transfusion.

RCL-05 • 3:00 – 3:55 pm

LIES, DAMN LIES AND ANESTHETIC MYTHS

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

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

RCL-06 • 4:00 – 4:55 pm

PEDIATRIC AIRWAY MANAGEMENT: CONGENITAL ANOMALIES THAT CAN MAKE YOUR LIFE DIFFICULT!

Presenter: Santhanam Suresh, MD, FAAP, Vice Chairman and Director of Research and Pain Medicine, Children’s Memorial Hospital, Professor of Anesthesiology and Pediatrics, Northwestern University, Chicago, Illinois

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Recognize common syndromes in children that lead to airway difficulty; (2) Postulate mechanisms for securing the airway; and (3) Identify an alternative source for airway intervention if original plan fails.

● Panels

P-01 • 10:00 – 11:30 am

SOCIETY FOR PEDIATRIC ANESTHESIA

Moderator: Nancy Glass, MD, MBA, Professor, Pediatric Anesthesiology, Director, Pediatric Anesthesia Fellowship, Director, Pediatric Pain Service, Director, Anesthesia Education, Texas Children’s Hospital, Houston, Texas

Panelists:

• Trauma by the Numbers—Trauma Scores and Outcomes
  Ira Todd Cohen, MD, MEd, FAAP, Professor of Anesthesiology and Pediatrics, Director of Education, Department of Anesthesiology and Pain Medicine, Children’s National Medical Center, Washington, DC

• Neuroprotection in Pediatric Trauma—What’s New?
  Robert C. Tasker, MA, AM, MBBS, FRCP, MD, Professor of Neurology and Anaesthesia (Pediatrics) Harvard Medical School, Chair in Neurocritical Care, Department of Neurology, Department of Anesthesiology. Perioperative and Pain Medicine, Division of Critical Care Medicine, Children’s Hospital Boston, Boston, Massachusetts

• Transfusion Therapy in Pediatric Trauma Victims
  Franklyn P. Cladis, MD, FAAP, Program Director, Pediatric Anesthesiology Fellowship, The Children’s Hospital of Pittsburgh of UPMC, Pittsburgh, Pennsylvania

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe the hemostatic considerations during transfusion therapy for pediatric trauma patients; (2) Describe blood conservation techniques during pediatric trauma; and (3) Discuss the role of a massive transfusion protocol for pediatric patients
The American Board of Anesthesiology (ABA) instituted a simulation requirement in 2010 as a component of part IV of its Maintenance of Certification in Anesthesiology (MOCA®) program. The ABA has collaborated with the American Society of Anesthesiologists (ASA), through its Committee on Simulation Education, to design and implement a simulation experience that satisfies the requirement. The ASA organized its endorsed simulation centers into the Simulation Education Network (SEN), to deliver the required training. Panelists, who are both Committee and SEN members, will describe the endorsement of simulation centers, the goals of the simulation experience from the perspective of a participating ABA Diplomate, and the results obtained to date. The panelists will address frequently asked questions such as “Can I fail the simulation component?,” “What should I study to prepare?,” and “What is a practice improvement plan?” Feedback from simulation course attendees will be reviewed. Questions and comments are welcome.

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe the ABA MOCA® simulation requirement; (2) Describe the key elements of a MOCA® simulation experience; (3) Explain how simulation can lead to practice improvement; (4) Evaluate how the MOCA® simulation experience has been received by participants; and (5) Evaluate the relevance of simulation training to their practice.

The target audience for this session is: (1) ABA Diplomates participating in MOCA® Time limited certification since 2000; and (2) Non-time limited certificate holders Simulation program directors and instructors.
Panelists:

• The Pharmacy is Out of Fentanyl Again. What Do I Do?
Dhanesh K. Gupta, MD, Associate Professor in Anesthesiology and Neurological Surgery, Northwestern University Feinberg School of Medicine, Chicago, Illinois
LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Review the pharmacokinetics and pharmacodynamics of fentanyl, morphine, hydromorphone, and methadone; (2) Identify the effect-site concentration-time relationships for opioid analgesia and ventilatory depression; and (3) Use knowledge of opioid pharmacokinetic-pharmacodynamics to develop rational equi-effective dosing strategies.

• Developmental Neurotoxicity: Are the Narcotics Safe?
Vesna Jevtovic-Todorovic, MD, PhD, MBA, Professor of Anesthesiology and Neuroscience, University of Virginia Health System, Charlottesville, Virginia
LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Review presently available animal literature regarding the effects of early exposure to commonly used opioids on the developing animal brain; (2) Review presently available clinical findings regarding potentially neurotoxic effects of prolonged exposure to opioids during early stages of human brain development; and (3) Discuss future directions of research aimed at understanding the long term effects of opioid use during early childhood (especially during neonatal period).

• An Emerging Paradigm In Neuropathic Pain: Targeting The Inflamed Glial Cells
Mohamed Naguib, MB, BCh, MSc, FARCSI, MD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, Ohio
LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Discuss the role of glial cells in mediating neuroinflammatory response in neuropathic pain; (2) Review the role of cannabinoids receptor type 2 (CB2) agonists in modulating glial activation and preventing neuropathic pain; and (3) Discuss the limitations of CB1 agonists in the setting of neuropathic pain.

IARS Networking Reception
Saturday, May 19
6:30 – 7:30 pm
4th Floor Foyer, Marriott
Join your colleagues for this complimentary reception — relax and unwind, build new relationships, renew old acquaintances, and meet with the IARS Board of Trustees and the Editorial Board of Anesthesia & Analgesia. Cocktails and hors d’oeuvres will be served. We look forward to seeing you there!
**Problem-Based Learning Discussions**

**PBLD-01 • 7:00 – 8:00 am**
CONCERNED ABOUT THE CERVICAL SPINE – “SO HOW WILL YOU INTUBATE?”

Moderator: Rafi Avitsian, MD, Section Head, Neurosurgical Anesthesiology, Neuroanesthesia Fellowship, Program Director, Associate Professor of Anesthesiology and Staff Anesthesiologist, Anesthesiology Institute Cleveland Clinic, Cleveland, Ohio

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Review the anatomy of the cervical spine, its changes with aging and pathologic states; (2) Recognize the important anesthetic consideration in patients with pathologic cervical spine; (3) Assess the extent of cervical spine movement during intubation with different methods; and (4) Design an induction and intubation plan for patients with concerned cervical spine.

**PBLD-02 • 7:00 – 8:00 am**
DRUG-INDUCED RESPIRATORY DEPRESSION: MISHAPS AND LIABILITY

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

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Be aware of the association between OSA and critical post-operative respiratory arrest; (2) Decide if oxygen administration is beneficial or detrimental to patient monitoring after surgery; (3) Identify the role of pulse oximetry v. capnography; (4) Describe how communication failure contributed to the patient outcomes; and (5) Review the recommendations of the APSF for monitoring patients receiving PCA narcotics.

**PBLD-03 • 7:00 – 8:00 am**
ANESTHESIA IN AN ORTHOPEDIC OUTPATIENT SURGERY CENTER: SYRINGE PUMP VERSUS VAPORIZER. IS TOTAL INTRAVENOUS ANESTHESIA A COSTLY GIMMICK OR WORTH THE HASSLE?

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

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss the pros and cons of combined techniques using inhalational versus intravenous agents; and (2) Explore the clinical pharmacology, techniques, equipment requirements, cost, risk of awareness, prolonged emergence, PONV, patient satisfaction, and user satisfaction for each technique.

**PBLD-04 • 7:00 – 8:00 am**
AIRWAY CASES FROM HADES!

Moderator: D. John Doyle, MD, PhD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic Foundation, Cleveland, Ohio

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the role of the ASA difficult airway algorithm in managing difficult airway cases; and (2) Discuss the role of new airway technologies such as video laryngoscopy in the management of the difficult airway.
Review Course Lectures

RCL-07 • 8:00 – 8:55 am
COAGULATION COCKTAILS: HELPFUL HINTS AND HARD DATA FOR PERIOPERATIVE BLEEDING
Presenter: Jerrold H. Levy, MD, FAHA, Professor and Deputy Chair for Research, Emory University School of Medicine, Cardiothoracic Anesthesiology and Critical Care Emory Healthcare, Atlanta, Georgia

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Summarize the pharmacologic therapies that affect hemostasis and the coagulation system; (2) Review the role of perioperatively acquired disorders of coagulation and implications for bleeding; (3) Identify the new anticoagulation agents recently approved and their perioperative management; and (4) Discuss pharmacologic strategies for decreasing postoperative bleeding, reducing transfusion coagulopathy, and reversing anticoagulation.

RCL-08 • 9:00 – 9:55 am
CRITICAL CARE UPDATE: 2012
- Veno-venous and veno-arterial ECMO: Why, what and when?
- Update on VADs and the total artificial heart: Getting closer to lift off?
- Ultrasound in the ICU: Opening new windows?
- Renal biomarkers: A troponin for the kidney?
Presenter: Robert N. Sladen, MBChB, FCCM, Professor and Executive Vice Chair of Anesthesiology and Chief, Division of Critical Care, Department of Anesthesiology, 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) Recognize the physiology and current application of veno-venous and veno-arterial ECMO in acute respiratory failure and circulatory shock; (2) Discuss the current applications of ventricular assist devices and the total artificial heart as bridge to recovery, transplantation or destination therapy; (3) Gain insight into the expanding role of bedside ultrasound and echocardiography in the ICU and its practice by intensivists; and (4) Recognize the promise and limitations of biomarkers in the early diagnosis of acute kidney injury.

RCL-09 • 10:00 – 10:55 am
MINIMALLY INVASIVE SURGERY: SURGEONS REPLACED BY ROBOTS?
Presenter: Robert J. Cerfolio, MD, Professor, Surgery, Chief of Section of Thoracic Surgery, JH Estes Endowed Chair for Lung Cancer Research, University of Alabama School of Medicine, Birmingham, Alabama

Presenter: Ralph Thomas Lyerly, III, MD, Assistant Professor, Department of Anesthesiology, University of Alabama School of Medicine, Birmingham, Alabama

LEARNER OBJECTIVES: Thoracic surgeons are rapidly learning robotics techniques for pulmonary resection. After participating in this activity, the learner will have reviewed: (1) How new technical maneuvers can speed the operation and shorten the learning curve; and (2) That prospective studies have shown that MIS reduces operative morbidity and mortality, as well as shortens recovery time and pain post-operatively.

RCL-10 • 11:00 – 11:55 am
NON-INVASIVE CARDIAC OUTPUT MONITORING: READY FOR PRIME-TIME?
Presenter: G. Burkhard Mackensen, MD, PhD, Professor and Chief, Division of Cardiothoracic Anesthesiology, UW Medicine Research and Education Endowed Professor in Anesthesiology, Department of Anesthesiology and Pain Medicine, UW Medicine Regional Heart University of Washington, Seattle, Washington

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the various means of non-invasive cardiac output monitoring; (2) Recognize the limitations of non-invasive cardiac output monitoring; and (3) Be aware of the clinical utility of non-invasive cardiac output monitoring in comparison with pulmonary artery catheterization and transesophageal echocardiography.

RCL-11 • 1:00 – 1:55 pm
PERIOPERATIVE PAIN MANAGEMENT IN AMBULATORY SURGERY
Presenter: Spencer S. Liu, MD, Clinical Professor of Anesthesiology, Director of Acute Pain Service, Hospital for Special Surgery, New York, New York

LEARNER OBJECTIVES: After participating in this activity, the learner will have (1) Assessed the potential effects from a selection of different types of general anesthesia on postoperative analgesia; (2) Reviewed advantages and disadvantages of selecting general versus regional anesthesia on patient recovery and postoperative analgesia; (3) Identified benefits and disadvantages of continuous regional analgesia techniques for ambulatory surgery; and (4) Reviewed clinical pharmacology of multimodal analgesia agents.
● Review Course Lectures — continued

RCL-12 • 2:00 – 2:55 pm

WHY DO ‘SIMILAR’ PATIENTS HAVE DIFFERENT OUTCOMES?

Presenter: Debra A. Schwinn, MD, Professor and Chair, Anesthesiology and Pain Medicine, Allan J. Treuer Endowed Professor in Anesthesiology, Adjunct Professor of Pharmacology and Genome Sciences, University of Washington, Seattle, Washington

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) List the difference between genetic and genomic medicine; (2) Describe how genetic variation potentially affects day-to-day care of perioperative patients; and (3) List drugs or medical conditions where genetic variability plays an important role in perioperative end organ injury or pain.

RCL-13 • 3:00 – 3:55 pm

UPDATE ON THE TREATMENT OF TRAUMATIC BRAIN INJURY

Presenter: Christian Werner, MD, Professor and Chairman, Department of Anesthesiology, University Medical Center, Johannes Gutenberg-Universität, Mainz, Germany

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the pathophysiology of TBI; (2) Treat patients based on a homeostatic approach; (3) Apply an escalating algorithm of treatment modalities; and (4) Distinguish between evidence and expert treatment concepts of TBI.

RCL-14 • 4:00 – 4:55 pm

911 IN THE OBSTETRIC SUITE: MANAGEMENT STRATEGIES FOR OB EMERGENCIES

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

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify procedures and system changes for improving outcomes of obstetric hemorrhage; (2) Explain procedures and rationale for intrauterine resuscitation; (3) Identify systems for defining urgency of unscheduled cesarean deliveries (decision to delivery interval); and (4) Explain the rationale for various anesthesia care plans for urgent deliveries.

RCL-15 • 5:00 – 5:55 pm

LINK BETWEEN ACUTE AND CHRONIC PAIN

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

● Panels

P-05 • 8:00 – 9:30 am

PERIOPERATIVE EVIDENCE-BASED DECISION MAKING AND KNOWLEDGE TRANSLATION – INTERACTIVE PANEL

Co-Moderators:

Davy C.H. Cheng, MD, MSc, FRCPC, FCAHS, Distinguished University Professor Chair/Chief, Department of Anesthesia and Perioperative Medicine, London Health Sciences Centre and St. Joseph Health Care, University of Western Ontario, London, Ontario, Canada

Janet Martin, PharmD, MSc (HTA&M), Director, High Impact Technology Evaluation Centre Co-Director, Evidence-Based Perioperative Clinical Outcomes Research Unit, Assistant Professor, Departments of Medicine, Anesthesia and Perioperative Medicine, London Health Sciences Centre, University of Western Ontario, London, Ontario, Canada

Interactive Panel:

• How to Find, Interpret and Apply the Evidence: Statistics - What to Acknowledge and What to Ignore.
  – Dr. Janet Martin

• EBM, EBDM, CER and HTA – From Evidence to Guideline Development and Knowledge Translation - Examples from Blood Management.
  – Dr. Davy Cheng

• Putting it into Action: Case Studies Involving Recent Evidence Regarding Inhaled Nitric Oxide, Acute Normovolemic Hemodilution, Erythropoeitin and Iron.
  – Drs. Martin and Cheng

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe the steps of progression from beginner levels of how to achieve EBM (5 steps from identifying the question through identifying and applying the evidence), to advanced applications of EBM (how to find and filter copious evidence, how to evaluate study quality, how to extract important numbers to indicate magnitude and precision of effect, how to manage conflicting evidence, which statistical terms to trust, and how to contextualize the findings); (2) Compare and contrast EBM with health technology assessment (HTA), comparative effectiveness review (CER), clinical practice guidelines (CPG), and knowledge translation (KT); and (3) Demonstrate the above concepts in action by applying the concepts to case studies from the real world setting.
IARS Resident Symposium
8:00 – 11:30 am

Focus on: Resident Education and Advancement

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

Presenters

• Getting Your Work Published!
  Steven L. Shafer, MD, Professor of Anesthesiology, Columbia University, New York, New York, Editor-In-Chief, Anesthesia & Analgesia

• Resident Education - Learning and Training
  Edward C. Nemergut, MD, Associate Professor of Anesthesiology and Neurological Surgery, University of Virginia Department of Anesthesiology, Charlottesville, Virginia

• Professional Development in Education
  Christine S. Park, MD, Assistant Professor, Department of Anesthesiology, Medical Director, Patient Safety Simulation Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

• Incorporating Technology Into Education and Learning
  Lawrence Chu, MD, MS, Associate Professor, Department of Anesthesia, Director, Stanford Anesthesia Informatics and Media Lab, Stanford Hospital and Clinics, Lucile Packard Children’s Hospital, Stanford, California

• So the Last Will Be The First: Why is Systems Based Practice the True Core Competency?
  Ruben J. Azocar, MD, Vice Chair for Education and Simulation and Residency Program Director, Department of Anesthesiology, Boston Medical Center, Associate Professor, Boston University School of Medicine, President, Massachusetts Society of Anesthesiologists

• Personal and Professional Life Balance
  John F. Butterworth, IV, MD, Professor and Chair, Department of Anesthesiology, VCU School of Medicine, Richmond, Virginia

Best of Resident Oral Abstract Judging Session

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

James G. Ramsay, MD, Emory University, Atlanta, Georgia

Debra A. Schwinn, MD, University of Washington, Seattle, Washington

Santhanam Suresh, MD, FAAP, Northwestern University, Chicago, Illinois

Denise J. Wedel, MD, Mayo Clinic, Rochester, Minnesota

See Next Page for Resident Finalists
P-06 • 10:00 – 11:30 am
APSF SAFETY PANEL OR MEDICATION SAFETY: MISHAPS, MISSTEPS, AND (MIS) MANAGEMENT

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

Panelists:
Sorin J. Brull, MD, FCARCSI (Hon), Professor of Anesthesiology, Mayo Clinic College of Medicine, Jacksonville, Florida

- Is residual NMB weakness a real problem in PACU?
- Do patients suffer complications as a result of residual weakness?
- Why won't anesthesiologists use twitch monitoring?
- How can we improve our practice with NMB drugs?

Learner Objectives: After participating in this activity, the learner will: (1) Be aware of the incidence of residual neuromuscular paralysis in the PACU; (2) Review the complications from residual neuromuscular paralysis; (3) Identify why anesthesiologists do not use neuromuscular monitors; (4) Describe the difference between “nerve stimulators” and “neuromuscular monitors”; and 5) Identify ways to improve our perioperative practice when using neuromuscular blocking agents.

Luke S. Theilken, MD, Instructor in Anesthesiology, Department of Anesthesiology, Northwestern University Feinberg School of Medicine, Chicago, Illinois

- How do we define a drug shortage and how does this occur?
- Drug shortages in the OR – What’s happening now and what’s next?
- Are patients put at risk when key drugs are ‘on back order’?
- Can counterfeit drugs make their way into your OR?
- What is the government’s policy to handle drug shortages?

Learner Objectives: After participating in this activity, the learner will be able to: (1) Define a drug shortage and explain how a drug shortage can occur; (2) Review the current status of drug shortages in the OR and discuss what steps should follow; (3) Discuss the risk and implications to patient safety when drugs are on “back order”; (4) Describe how counterfeit drugs can make their way into the OR; and (5) Identify governmental policy and current regulation to handle drug shortages.

Steven L. Shafer, MD, Professor of Anesthesiology, Columbia University, New York, New York, Editor-In-Chief, Anesthesia and Analgesia

- Use and abuse of propofol and other major Rx used every day in the OR
- Is propofol virtually “foolproof”?  
- How safe is this drug? How do providers misuse it?

Learner Objectives: After participating in this activity, the learner will: (1) Be aware of the incidence and examples of medication mishaps in the OR; (2) Review the limitations of current monitoring techniques; (3) Describe the contribution of education failure to propagation of assessment myths; (4) Recognize contributors to medication errors such as drug shortages and pharmacy substitution(s); (5) Identify how ‘production pressure’ contributes to medication errors; (6) Investigate if propofol is virtually “foolproof”; and (7) Identify things you don’t know about propofol – but should!

P-07 • 1:00 – 2:30 pm
TRAUMATIC BRAIN INJURY – FROM IMPACT TO THE ICU

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

Panelists:
David W. Wright, MD, Associate Professor of Emergency Medicine, Emory University School of Medicine, Atlanta, Georgia

- Traumatic Brain Injury: Intraoperative and Anesthetic Considerations

Deepak Sharma, MBBS, MD, Assistant Professor of Anesthesiology, University of Washington, Seattle, Washington

- Beyond the Bolt – The Role of Multimodal Monitoring in Traumatic Brain Injury

Martin Smith, MBBS, FRCA, FFICM, Consultant and Honorary Professor in Neuroanaesthesia and Neurocritical Care University College London Hospitals, London, England

Learner Objectives: After participating in this activity, the learner will be able to: (1) Appreciate the strategies utilized for pre-hospital care of the acute brain injured patient; (2) Compare and contrast issues specific to the perioperative care of both the adult and pediatric brain injury patient; (3) Review the role of critical care management in the outcome following brain injury; and (4) Recognize the utility of invasive monitoring in the brain injured patient.
P-08 • 1:00 – 3:00 pm

OpenAnesthesia.org

OPENANESTHESIA EDUCATION PANEL:
NEW METHODS TO TRAIN BETTER DOCTORS

Moderator: Edward C. Nemergut, MD

• Using Simulation to Teach Professionalism and Communication
  May C. Pian-Smith, MD, Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, Massachusetts

• Fidelity in Simulation Matters, and Sometimes Less is More
  Christine S. Park, MD, Assistant Professor, Department of Anesthesiology, Medical Director, Patient Safety Simulation Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

• A Multi-Modal Course to Introduce Residents to Cardiac Anesthesia
  Julie L. Huffmyer, MD, Assistant Professor, Department of Anesthesiology, University of Virginia, Charlottesville, Virginia

• New Web-Based Teaching Tools
  Edward C. Nemergut, MD, Associate Professor of Anesthesiology and Neurological Surgery, University of Virginia Department of Anesthesiology, Charlottesville, Virginia

LEARNER OBJECTIVES: After participating in this activity, the learner will: (1) Identify how to use simulation to help residents to become more effective and professional communicators; (2) Appreciate the advantage of low-fidelity approaches to simulation and how these technologies can improve resident training; (3) Describe how to design an effective curriculum to introduce residents to cardiac anesthesia; and (4) Gain insight about how new web-based teaching tools can enhance clinical training and facilitate self-directed learning and study.

P-09 • 3:00 – 4:30 pm

MONITORING DURING CARDIAC SURGERY:
WHAT IS “STATE-OF-THE-ART”?

Moderator: Charles W. Hogue, MD

Panelists:

• Cardiac Monitoring for Cardiac Surgery in the Era of Health Reform: The Good, the Bad, the Expensive
  Martin J. London, MD, Professor of Clinical Anesthesia, University of California, San Francisco, California

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Appreciate current evidence based recommendations for cardiac monitoring (ECG, PAC, TEE) in the 2011 ACCF/AHA CABG Guidelines; (2) Evaluate more recent data not included in the Guidelines; (3) Develop a strategy for cost-effective monitoring in their practice environment.

• NIRS Monitoring During Cardiac Surgery: Present and Future
  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

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the basic concepts of near infrared spectroscopy monitoring and how to manage patients when the cerebral saturation declines; (2) Appreciate the current level of evidence supporting the use of near infrared spectroscopy; and (3) Be familiar with new advances in patient monitoring based on near infrared spectroscopy.

Jerrold H. Levy, MD, FAHA, Professor and Deputy Chair for Research, Emory University School of Medicine, Cardiothoracic Anesthesiology and Critical Care Emory Healthcare, Atlanta, Georgia

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the different methods to monitor hemostasis and coagulation perioperatively in cardiac surgery; (2) Understand the different coagulation tests and their clinical implications; and (3) Evaluate the role of factors in perioperative hemostatic management.
Dilemmas in Perioperative Critical Care Anesthesia: An Interactive Panel Discussion with Audience Response*

Moderator: Avery Tung, MD

Panelists:

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

Robert N. Sladen, MBChB, FCCM, Professor and Executive Vice Chair of Anesthesiology and Chief, Division of Critical Care, Department of Anesthesiology, College of Physicians and Surgeons of Columbia University, New York, New York

Aryeh Shander, MD, FCCM, FCCP, Chief Department of Anesthesiology Critical Care Medicine, Pain Management and Hyperbaric Medicine, Englewood Hospital and Medical Center, Englewood, New Jersey

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

Learner Objectives: After participating in this activity, which will include audience response, literature review, and expert panel discussion, learners attending this session will use a case-based format to review existing literature and current clinical practice on the following controversies in anesthesia for high risk surgery: (1) Preoperative management of a bare metal coronary stent; (2) Perioperative management of asymptomatic aspiration; (3) Perioperative management of difficult central venous access; (4) Perioperative dilemmas in vasopressor and inotrope use for hepatic surgery; and (5) Thresholds for postoperative extubation.

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

Workshops

W-01 • 8:00 am – 12:00 pm

Advanced Ultrasound Guided Nerve Block*

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

Workshop presenters:

- Neural Space and Lumbar Plexus
  Sugantha Ganapathy, MD, FRCP, Professor, Director, Regional and Pain Research, University of Western Ontario, London, Ontario, Canada

- Thoracic Paravertebral Space and Parasacral Sciatic Nerve
  Jacques E. Chelly, MD, PhD, MBA, Professor, Department of Anesthesiology, University of Pittsburgh, Posner Pain Center, Aiken Medical Building, Pittsburgh, Pennsylvania

- Sciatic Nerve (Transgluteal, Subgluteal, Anterior Approaches)
  Vincent W.S. Chan, MD, FRCPC, Professor, Department of Anesthesiology, University of Toronto, Toronto Western Hospital, Toronto, Ontario, Canada

- Abdominal Wall and Trunk – (Ilioinguinal, Iliohypogastric, Obturator and Saphenous Nerves, Transversus Abdominis Plane and Rectus Sheath)
  Vicki E. Modest, MD, Instructor, Department of Anesthesiology, Critical Care and Pain Medicine Massachusetts General Hospital, Boston, Massachusetts

This workshop will provide hands-on experience in scanning:

- Neuraxial space
- Thoracic and lumbar paravertebral spaces
- Sciatic Nerve (Parasacral, Transgluteal, Subgluteal, Anterior Approaches)
- Abdominal Wall and Trunk (Ilioinguinal, Iliohypogastric, Obturator and Saphenous Nerves, Transversus Abdominis Plane, and Rectus Sheath)
- Abdominal Wall and Trunk (Ilioinguinal, Iliohypogastric, Transversus Abdominis Plane, Rectus Sheath)

Learner Objectives: Upon completion of this Advanced Ultrasound Workshop, participants will be able to: (1) Perform ultrasound imaging of small peripheral nerves, sciatic nerve, paravertebral space and neuraxial space; (2) Recognize appropriate clinical indications and alternatives for ultrasound guided blocks in the described regions; (3) Apply appropriate block approaches in the described regions; (4) Explain how ultrasound techniques differ from conventional approaches; and (5) Select appropriate equipment and medication choices and doses.

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

Workshop Leader: Roman M. Sniecinski, MD, FASE, Assistant Professor of Anesthesiology, Department of Anesthesiology, Division of Cardiothoracic Anesthesia, Emory University School of Medicine, Atlanta, Georgia

Workshop presenters:

Nikolas Skubas, MD, FASE, Associate Professor of Anesthesiology, Director, Cardiac Anesthesia, Weill Cornell Medical College - New York-Presbyterian Hospital, New York, New York

Douglas C. Shook, MD, Department of Anesthesiology, Perioperative and Pain Medicine, Program Director, Cardiothoracic Anesthesia Fellowship, Brigham and Women’s Hospital, Boston, Massachusetts

Charles B. Nyman, MBBCh, Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital, Boston, Massachusetts

TEE Workshop Overview – This three-hour workshop will provide both lecture portions and hands-on instruction in a two part presentation for both novices and intermediate level learners in echocardiography. The goal will be to highlight how basic skills in ultrasound can improve patient care in non-cardiac surgery.

• Part-1: Basic TEE – The first part of the workshop will be framed for the general anesthesiologist in search of a basic understanding of echocardiography with particular attention to TEE. Basic imaging concepts, anatomy, and patient safety will be presented.

• Part-2: Beyond the Basics – After establishing some basic principles in Part 1, the participant will move on toward applying these concepts to patient care. The second part of the workshop will include some hands-on participation and discussion of multiple case-based scenarios.

Introducing Party with a Purpose

Sunday, May 20
6:30 pm

‘Party with a Purpose’ during the 2012 Annual Meeting at the IARS fundraising dinner to help raise awareness of and support for anesthesia research. Guests will enjoy a fun filled evening with good food, live music, and entertainment.

Tickets can be purchased at the Annual Meeting Registration Desk.
**Daily Schedule At-a-Glance**

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**● Problem-Based Learning Discussions**

**PBLD-01 • 7:00 – 8:00 am**

**8 Y/O DIABETIC ON AN INSULIN PUMP FOR TONSIL SURGERY**

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

**Learner Objectives:**
1. Identify how to approach a patient on an insulin pump;
2. Numerate specific concerns for a patient with diabetes having ambulatory surgery and solutions to them;
3. Identify issues specific to pediatric tonsillectomy surgery, evaluate them, and create an anesthetic plan to address them.

**PBLD-02 • 7:00 – 8:00 am**

**HOW MUCH LIVER IS ENOUGH?**

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

**Learner Objectives:**
1. Recognize the effect of liver resection on hepatic function;
2. Appreciate the difference of liver function and injury and how they may affect outcome after liver resection;
3. Comprehend different surgical techniques and how they impact the hemodynamic management during liver resections;
4. Appreciate possible interventions to minimize hepatic injury during liver resection.

**PBLD-03 • 7:00 – 8:00 am**

**VIDEO TECHNOLOGY IN LARYNGOSCOPY AND INTUBATION: WHAT, WHERE, WHEN AND WHY**

**Moderator:** D. John Doyle, MD, PhD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic Foundation, Cleveland, Ohio

**Learner Objectives:**
1. Discuss the role of video laryngoscopy in routine anesthesia cases;
2. Discuss the role of video laryngoscopy in potential difficult airway cases;
3. Identify the changes to the ASA difficult airway algorithm (last published in 2003) that should be made in the next edition to reflect the changes introduced by video laryngoscopy.

**PBLD-04 • 7:00 – 8:00 am**

**HEMODYNAMIC MONITORING IN 2012**

**Moderator:** Ruben J. Azocar, MD, Vice Chair for Education and Simulation Residency Program Director, Department of Anesthesiology, Boston Medical Center, Associate Professor, Boston University School of Medicine, President, Massachusetts Society of Anesthesiologists, Boston, Massachusetts

**Learner Objectives:**
1. Discuss the importance of hemodynamic monitoring in high-risk patients;
2. Describe the physiological principles behind newer hemodynamic monitors;
3. Summarize the data supporting the use of newer hemodynamic monitors.
● Review Course Lectures

RCL-16 • 8:00 – 8:55 am
PEDIATRIC ANESTHESIA: LITTLE PEOPLE WITH LOTS OF PROBLEMS!

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

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Assess the issues of anesthesia related neurotoxicity in children; (2) Review the pathophysiology of sleep apnea in children; and (3) Review the anesthetic management of children with sleep apnea.

RCL-17 • 9:00 – 9:55 am
PERIOPERATIVE LUNG PROTECTIVE STRATEGIES: ARE THEY WORTH THE TROUBLE?

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) Identify the patients at risk for perioperative lung injury; (2) Review the principles of protective ventilation; (3) Identify the anesthetic factors in the perioperative period that contribute to lung injury; and (4) Appreciate new advances in therapy for perioperative lung injury.

RCL-18 • 10:00 – 10:55 am
SIZE MATTERS: PERIOPERATIVE MANAGEMENT OF THE MORBIDLY OBESE

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

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

RCL-19 • 11:00 – 11:55 am
READING YOUR MIND: MONITORING THE BRAIN UNDER ANESTHESIA

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

LEARNER OBJECTIVES: After participating in this activity, the learner will have reviewed and discussed: (1) Why monitor the brain; (2) Introduction to the EEG; (3) Features of an “ideal” depth of anesthesia (DOA) monitor; (4) Why current processed EEG monitors (pEEGs) are limited as candidate DOA monitors; (5) Meaningful information from the raw EEG; (6) EEG features and prognosis; (7) Better candidate pEEG approaches; and (8) Going forward with EEG monitoring.

RCL-20 • 1:00 – 1:55 pm
ANESTHESIA AND THE COMPLEX EP PATIENT: DO ANESTHETIC TECHNIQUES MATTER?

Presenter: Aman Mahajan, MD, PhD, FAHA, Professor and Vice-Chair, Acute Care Medicine Chief, Cardiothoracic Anesthesiology Director, UCLA Interventional Cardiovascular Operations Co-Director, UCLA Cardiac Arrhythmia Center David Geffen School of Medicine at UCLA, Los Angeles, California

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the effects of anesthetics on cardiac electrophysiology; (2) Review the role of general anesthesia and MAC in management of clinical EP procedures – AF/VT ablations; and (3) Review the use of central and peripheral autonomic blockade in managing VT.

RCL-21 • 2:00 – 2:55 pm
HERBAL MEDICINES IN ANESTHETIC PRACTICE

Presenter: Tony Gin, FANZCA, FRCA, MD, Professor and Chairman, Department of Anaesthesia and Intensive Care, Chinese University of Hong Kong, Prince of Wales Hospital, Shatin, Hong Kong, China

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Appreciate historical aspects of herbal medicines as adjuvants to anesthesia; (2) Identify potential interactions between common herbal medicines and anesthesia; and (3) Review recommendations for stopping (or continuing) herbal medicines.
**Panels**

**P-11 • 8:00 – 9:30 am**

**OSA PATIENT AND ANESTHESIA – A CLINICAL CHALLENGE**

Moderator: Frances Chung, MBBS, FRCPC

Panelists:

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

  **LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Describe the influences of sleep and anesthesia on upper airway patency; and (2) Examine the common factors predisposing to upper airway obstruction during sleep and to difficulties with perioperative airway management.

- **The Approach to STOP-Bang Questionnaire – What and How?**
  Frances Chung, MBBS, FRCP, Professor, Department of Anesthesiology, University of Toronto Medical Director, Ambulatory Surgical Unit and Combined Surgical Unit Toronto Western Hospital, University Health Network, Toronto, Ontario, Canada

  **LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Appraise STOP-Bang questionnaire and how to use it properly for screening; and (2) Formulate algorithms for the perioperative management of OSA patients.

- **OSA and Perioperative Complications: What Do We Need to Know So Far?**
  Roop Kaw, MD, Associate Professor of Medicine, Department of Hospital Medicine and Outcomes Research, Anesthesiology, Cleveland Clinic, Cleveland, Ohio

  **LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Examine the strengths and weaknesses of evidence for perioperative risk from OSA from the available literature; and (2) Identify the reasons and a strategy for a novel risk stratification approach.

- **Mechanisms and Methods of Perioperative Risk Modification in OSA – How Risk of These Complications Might be Mitigated**
  Satya-Krishna Ramachandran, MD FRCA, Assistant Professor, Director of Quality Assurance and Post Anesthesia Care, Department of Anesthesiology, University of Michigan, Ann Arbor, Michigan

  **LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Examine potential mechanisms of perioperative adverse outcomes specific to OSA; and (2) Identify postoperative monitoring challenges and evaluate risk-modification using monitoring technology.

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**Review Course Lectures — continued**

**RCL-22 • 3:00 – 3:55 pm**

**THE POOR MAN’S EPIDURAL: SYSTEMIC LOCAL ANESTHETICS AND SURGICAL OUTCOMES**

Presenter: Marcel E. Durieux, MD, PhD, Professor, Departments of Anesthesiology and Neurological Surgery, University of Virginia, Charlottesville, Virginia

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify the effects of systemic local anesthetics on inflammatory signaling; (2) Describe the effects of systemic local anesthetics on experimental and postoperative pain; and (3) Discuss the beneficial actions of systemic local anesthetics on postoperative recovery.

**RCL-23 • 4:00 – 4:55 pm**

**WHAT TO DO: CONTROVERSIAL CASE STUDIES IN REGIONAL ANESTHESIA**

Presenters:

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

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

Denise J. Wedel, MD, Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Identify controversial practice areas in regional anesthesia and determine how to proceed based on current data; (2) Diagnose and manage complications related to higher risk procedures in regional anesthesia; and (3) Avoid complications when possible by weighing risk/benefit in controversial procedures.
Introduction: Why Clinical Outcomes Research?
Keith A. (Tony) Jones, MD, Alfred Habeeb Professor and Chair, Department of Anesthesiology, University of Alabama, Birmingham, Alabama

Cost Efficiency of Knowledge Generation: Observational vs. Intervventional Trials
Andreas Hoeft, MD, PhD, Professor, Department of Anesthesiology and Intensive Care Medicine, University Hospital Bonn, Bonn, Germany

Why P Values, C Statistics and AUCs
Don’t Matter a Hoot in Outcomes Research
Simon C. Body, MBChB, MPH, Associate Professor in Anaesthesia, Harvard University, Boston, Massachusetts

Variability of Surgical Outcomes in Europe (EUSOS)
Rupert Pearce, FRCA, MD, Senior Lecturer and Consultant in Intensive Care Medicine, Centre for Translational Medicine and Therapeutics, William Harvey Research Institute, Barts and the London School of Medicine and Dentistry, Royal London Hospital, Whitechapel, London, United Kingdom

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify reasons for conducting large multicentre studies; (2) Describe how you can recruit well-performing centres; (3) Identify common problems and pitfalls of multicentre studies; and (4) Discuss authorship, disputes, and ownership.

Panel Discussion
Daniel I. Sessler, MD, Michael Cudahy Professor and Chair, Department of Outcomes Research, Cleveland Clinic, Cleveland, Ohio

Panels — continued

ABA PROGRAMS FOR PRIMARY CERTIFICATION AND MAINTENANCE OF CERTIFICATION IN ANESTHESIOLOGY (MOCA ®)

Panelists:
Deborah J. Culley, MD, Assistant Professor, Harvard Medical School, Department of Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital, Boston, Massachusetts
Santhanam Suresh, MD, FAAP, Vice Chairman and Director of Research and Pain Medicine, Children’s Memorial Hospital, Professor of Anesthesiology and Pediatrics, Northwestern University, Chicago, Illinois

• Primary Certification
  • Comparison of the Part 1 and Part 2 Examinations
  • Overview of specific areas evaluated in the Part 2 Examination
  • Outline of the Part 2 Examination process
  • Identification of common problems encountered by candidates
  • Discussion of the successful candidate of the Part 2 Examination

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

How to Do an Intervventional Study with Minimal Money (PROVHILO)
Marcus J. Schultz, MD, PhD, Professor and Intensivist, Departments of Intensive Care and Anesthesiology, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify reasons for conducting large clinical studies, (2) Discuss that next to RCTs, observational studies may change daily practice as well; and (3) Learn how to keep costs associated with (any type of large) studies as low as possible.
● Panels — continued

SOCIETY FOR ANESTHESIOLOGY SAFETY IN AMBULATORY SURGERY

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

Panelists:

• Accreditation
  Beverly K. Philip, MD, Anesthesiologist, Brigham and Women’s Hospital, Professor of Anesthesia, Harvard Medical School, Boston, Massachusetts, Past President of SAMBA

• Outcome Registries
  Lucinda L. Everett, MD, Chief – Pediatric Anesthesia, Massachusetts General Hospital; Associate Professor, Harvard Medical School, Boston, Massachusetts, Past President of SAMBA

• Obstructive Sleep Apnea
  Girish P. Joshi, MBBS, MD, FFARCSI, Professor of Anesthesiology and Pain Management, Director of Perioperative Medicine and Ambulatory Anesthesia, University of Texas Southwestern Medical Center at Dallas, Dallas, Texas, Past President of SAMBA

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Recognize a connection between quality and accreditation, (2) Discuss how outcomes can be improved by database analysis, (3) Assess the risks of sleep apnea in ambulatory surgery, and (4) Identify appropriate selection of patient with OSA for ambulatory surgery.

P-14 CONTINUED

PEDIATRIC ANESTHESIA NEUROTOXICITY PANEL

Moderator: Randall Flick, MD, MPH, Affiliate Advisory Council Member, SmartTots, Associate Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota

Panelists:

• Anesthesia and the Developing Brain: What are Our Options?
  Vesna Jevtovic-Todorovic, MD, PhD, MBA, Scientific Advisory Board Member, SmartTots, Professor of Anesthesiology and Neuroscience, University of Virginia Health System, Charlottesville, Virginia

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the mechanisms responsible for anesthesia-induced developmental neurotoxicity; (2) Focus on most vulnerable cellular targets responsible for anesthesia-induced neuronal death; and (3) Assess possible protective strategies which would enable safe use of anesthesia in our youngest patients.

P-14 CONTINUED

• Preclinical Neurotoxicity Assessments of Pediatric Anesthetics: Translational Approaches Using a Nonhuman Primate Model
  Merle G. Paule, PhD, Scientific Advisory Board Member, SmartTots and Director, Division of Neurotoxicology, National Center for Toxicological Research, US Food and Drug Administration, Jefferson, Arkansas

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Describe the vulnerable periods during the rapid growth of the brain during which general anesthetics are likely to have their most deleterious effects in rodent and primate models of development; (2) Describe the duration (weeks, months, years) over which the adverse effects of developmental exposures to general anesthesia on cognitive function have been shown to manifest in animal models; and (3) Describe in general the kinds of cognitive deficits that have been observed in animal models after single, albeit prolonged, episodes of general anesthesia during the brain growth spurt.

• Human Studies: Is There Evidence For An Association Between Anesthesia In Early Childhood and Neurobehavioral Outcome?
  Andrew J. Davidson, MBBS, MD, FANZCA, Director of Clinical Research, Royal Children’s Hospital; Senior Staff Anaesthetist, Department of Anaesthesia, Royal Children’s Hospital; Associate Professor, Department of Paediatrics, University of Melbourne; Head of Anaesthesia Research, Murdoch Childrens Research Institute; Associate Editor, Anesthesiology; Section Editor, Pediatric Anesthesia

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the evidence for and against an association between anesthesia in early childhood and later neurobehavioral outcome in humans; (2) Identify the limitations in determining the strength of association; and (3) Discuss the difficulties in determining causation in these cohort studies.

• What is Needed to Resolve the Question of Whether Animal Studies Apply to Children?
  David O. Warner, MD, Affiliate Advisory Council Member, SmartTots, Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Articulate the concept of translation as applied to the relationship between model and human studies; (2) Analyze the strengths and weaknesses of various study designs in this area; and (3) Formulate a conceptual research agenda to resolve this question.
P-15 • 3:00 – 4:30 pm

COAGULOPATHY AND THROMBOSIS: THE YIN AND YANG OF LIVER FAILURE

Moderator: Gebhard Wagener, MD

Panelists:

• Coagulation and thrombosis: Why do laboratory results not correlate with reality?

Panelist: 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

• What we learned about hypercoagulability from liver failure and transplantation.

Robert J. Porte, MD, PhD, Professor of Surgery, Hepato-Pancreato-Biliary Surgery and Liver Transplantation, University Medical Center Groningen, Groningen, The Netherlands

• When to transfuse what? Correcting coagulopathy without doing harm.

Paul Picton, MD, MRCP, FRCA, Assistant Professor, Director, Transplant Anesthesia, Director, Vascular Anesthesia Medical Center, Ann Arbor, Michigan

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to (1) Identify coagulation and thrombosis; (2) Review what we learned about hypercoagulability from liver failure and transplantation; and (3) Recognize when to transfuse what – correcting coagulopathy without doing harm.

P-16 • 3:00 – 4:30 pm

CONTROVERSIES IN CLINICAL AIRWAY MANAGEMENT

Moderator: D. John Doyle, MD, PhD

Panelists:

• Should the “Rapid Sequence Induction” Remain the “Standard of Care” in Full Stomach Patients?

D. John Doyle, MD, PhD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic, Cleveland, Ohio

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the concept of “standard of care” and its medicolegal implications; and (2) Describe the debate surrounding the efficacy of cricoid pressure as a means of preventing regurgitation of gastric contents.

• Comparing the ASA Difficult Airway Algorithm with Other Published Airway Algorithms

Ling Qun Hu, MD, Assistant Professor of Anesthesiology, Northwestern University, Founder and Chief Executive Director, No Pain Labor ‘N’ Delivery, Chicago, Illinois

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Identify the differences surrounding the definitions of difficult airway; and (2) Compare and contrast the differences among the guidelines regarding anticipated difficult airway, unanticipated difficult tracheal intubation, difficult mask ventilation, and cannot intubate cannot ventilate.

• Where Does Video Laryngoscopy Fit Into Modern Clinical Airway Management?

Michael T. Walsh, MD, Assistant Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota

LEARNER OBJECTIVES: After participating in this activity, the learner will be able to: (1) Become familiar with the different types of video laryngoscopes and understand their advantages and disadvantages; (2) Describe the role of video laryngoscopes within the ASA Difficult Airway Algorithm; and (3) Describe how video laryngoscopes have changed the approach to airway management.
**Workshop**

**W-03 • 8:00 – 11:00 am**

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

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

**Workshop presenters:**

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

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

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

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

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

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

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

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

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

Santhanam Suresh, MD, FAAP, Vice Chairman and, Director of Research and Pain Medicine, Children’s Memorial Hospital, Professor of Anesthesiology and Pediatrics, Northwestern University, Chicago, Illinois

Daniel D. Wambold, MD, Anesthesiologist, Valley Hospital, Ridgewood, New Jersey

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.

**Abstract Awards Session**

**Best of Abstract Meeting Awards**

1:00 – 2:30 pm

At this Award session, the six highest scoring abstracts, selected from over 500 total submissions representing patient-oriented research and basic science research will be presented to a panel of judges and attendees for review and award.

The abstracts judged the best patient-oriented research and the best basic science research will each receive a $1,000 award.

**Kosaka Abstract Awards**

2:30 – 4:00 pm

Co-sponsored by the IARS and the Japan Society for Clinical Anesthesia (JSCA), the Kosaka Award will be presented to the best patient-oriented research abstract and the best basic science research abstract. An award of $500 will be presented to both winners.

Three abstracts submitted by Japanese researchers along with three abstracts on matching topics submitted by international colleagues will be selected from over 500 submissions and presented to a panel of judges and attendees for review and award at this session.

The IARS gratefully acknowledges the support of the Japanese Society for Clinical Anesthesia (JSCA) and their contribution of $1000 toward the award.

**Judges**

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

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

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

Santhanam Suresh, MD, FAAP, Children’s Memorial Hospital, and Northwestern University, Chicago, Illinois
S-14  THE MINIMUM EFFECTIVE DOSE OF DEXAMETHASONE IN COMBINATION WITH MIDAZOLAM IN PATIENTS UNDERGOING LAPROSCOPIC CHOLECYSTECTOMY FOR PREVENTION OF POST OPERATIVE NAUSEA AND VOMITING
S. Srivastava, S. Dhiraaj, R. Gupta
Anesthesiology, SGPGIMS, Lucknow, India

S-57  PERIOPERATIVE USE OF THE GLUCOMANDER® FOR GLUCOSE CONTROL IN PATIENTS UNDERGOING CARDIAC SURGERY
J. L. Huffmyer, F. E. Blum, D. S. Groves, E. C. Nemergut
Anesthesiology, University of Virginia, Charlottesville, VA

S-291  EXPOSURE OF TG2576 MICE TO ISOFLURANE RESULTS IN NO DETECTABLE INCREASE IN Aβ AMYLOID LOAD VIA [18F]AV45 PET IMAGING CONFIRMED WITH AUTORADIOGRAPHIC INVESTIGATION
C. Rowan¹, S. Kennel², R. M. Craft¹, J. Wall², E. Martin²
¹Department of Anesthesiology, University of Tennessee Graduate School of Medicine, Knoxville, TN; ²Preclinical and Diagnostic Molecular Imaging Laboratory, Department of Medicine, University of Tennessee Graduate School of Medicine, Knoxville, TN

S-41  IN VIVO FLUORESCENCE-MEDIATED TOMOGRAPHY IMAGING DEMONSTRATES ATORVASTATIN MEDIATED REDUCTION OF LESION MACROPHAGES IN APOE-DEFICIENT MICE
J. Larmann¹, T. Frenzel²,³, P. Demmer¹, U. J. Tietge⁴, C. Bremer¹, G. Theilmann¹
¹Department of Anesthesiology and Intensive Care Medicine, Hannover Medical School, Hannover, Germany; ²Department of Anesthesiology and Intensive Care Medicine, University Hospital Muenster, Muenster, Germany; ³Institute for Anatomy, University of Muenster, Muenster, Germany; ⁴Department of Pediatrics, Center for Liver, Digestive, and Metabolic Diseases, University Medical Center Groningen, Groningen, Netherlands; ⁵Department of Clinical Radiology, University Hospital Muenster, Muenster, Germany

CC-131  AIRWAY MANAGEMENT IN LOW TRACHEAL TUMOUR – AN ANAESTHETIC CHALLENGE
S. Gombar, R. Jayant, U. Dalal
Anaesthesia, Government Medical College & Hospital Sector 32, Chandigarh, India; Surgery, Government Medical College & Hospital Sector 32, Chandigarh, India

S-406  CHRONIC MORPHINE ADMINISTRATION LEADS TO INCREASED NEUROAPOPTOSIS IN NEWBORN RATS
D. Bajic, K. G. Commons, S. G. Soriano
Department of Anesthesiology, Perioperative and Pain Medicine, Children’s Hospital Boston, Boston, MA
The Kosaka Abstract Forum was created to promote interaction between Japanese researchers and their scientific colleagues throughout the world in honor of Dr. Futami Kosaka who was the Chair and Professor of the Department of Anesthesiology and Resuscitology at Okayama University School of Medicine, Japan. Dr. Kosaka dedicated himself to establishing the America-Japan Anesthesia Congress in order to promote science in anesthesia and friendship between IARS and the Japan Society for Clinical Anesthesia.

## Kosaka Awards Finalists

### Japanese Researcher Abstracts

<table>
<thead>
<tr>
<th>S-196</th>
<th>USEFULNESS OF ULTRASOUND GUIDED CENTRAL VENOUS INSERTION IS DEPENDENT ON THE DIFFERENT CLINICAL EXPERIENCES</th>
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<tbody>
<tr>
<td>1A</td>
<td>T. Yorozu(^1), Y. Shiokawa(^2), K. Moriyama(^1), Y. Ohashi(^2)</td>
</tr>
<tr>
<td></td>
<td>1Anesthesiology, Kyorin University School of Medicine, Mitaka, Tokyo, Japan; 2Neurosurgery, Kyorin University School of Medicine, Mitaka, Tokyo, Japan</td>
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<tr>
<th>S-434</th>
<th>THE INHIBITORY EFFECTS OF KETAMINE ON SUBSTANCE P RECEPTOR IN U373 MG HUMAN ASTROCYTOMA CELLS</th>
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<tbody>
<tr>
<td>2A</td>
<td>K. Yamaguchi</td>
</tr>
<tr>
<td></td>
<td>Tokyo, Japan</td>
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<tr>
<th>S-477</th>
<th>CHARACTERISTICS OF TRANSIENT PARESTHESIA DURING EPIDURAL CATHETER PLACEMENT: THE INCIDENCE AND LOCATION OF PARESTHESIA ACCORDING TO THE VERTEBRAL LEVEL OF THE PUNCTURE</th>
</tr>
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<tbody>
<tr>
<td>3A</td>
<td>A. Ogura(^1), M. Zenfuka(^2), Y. Nakajima(^2), T. Inoue(^3)</td>
</tr>
<tr>
<td></td>
<td>1Anesthesiology, Mizonokuchi Hospital, Teikyo University School of Medicine, Kawasaki, Japan; 2Anesthesiology, Shizuoka Red Cross Hospital, Shizuoka, Japan; 3Anesthesiology, Chiba-Hokusoh Hospital, Nippon Medical School, Chiba, Japan</td>
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### Non-Japanese Researcher Abstracts

<table>
<thead>
<tr>
<th>S-197</th>
<th>DRUG ADMINISTRATION ERRORS DURING EPIDURAL OR SPINAL ANESTHESIA OR ANALGESIA</th>
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<tbody>
<tr>
<td>1B</td>
<td>S. Patel</td>
</tr>
<tr>
<td></td>
<td>Anesthesia, The Pennine Acute NHS Trust, Rochdale, United Kingdom</td>
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<tr>
<th>S-427</th>
<th>MODULATION OF δ SUBUNIT-CONTAINING GABAA RECEPTORS BY ETOMIDATE DEPENDS ON SUBUNIT ARRANGEMENT</th>
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<tbody>
<tr>
<td>2B</td>
<td>S. A. Forman, H. Feng, Y. Jounaidi</td>
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<tr>
<td></td>
<td>Anesthesia Critical Care &amp; Pain Medicine, Massachusetts General Hospital, Boston, MA</td>
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<tr>
<th>S-492</th>
<th>INTERPATIENT VARIABILITY IN INTRATELICAL DRUG DISTRIBUTION: CEREBROSPINAL FLUID PULSATILE MAGNITUDE, FREQUENCY, SOLUTION BARICITY, AND TOXICITY RISKS</th>
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<tbody>
<tr>
<td>3B</td>
<td>Y. Hsu, A. Linninger</td>
</tr>
<tr>
<td></td>
<td>Department of Bioengineering, University of Illinois at Chicago, Chicago, IL</td>
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### Daily Schedule At-a-Glance

<table>
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<tr>
<th>Time</th>
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<th>Description</th>
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<tr>
<td>6:30 am – 11:30 am</td>
<td>Registration</td>
<td></td>
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<tr>
<td>7:00 am – 8:00 am</td>
<td>Problem-Based Learning Discussions</td>
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<tr>
<td>8:00 am – 12:00 pm</td>
<td>Concurrent Education Sessions</td>
<td>Review Course Lectures, Panels</td>
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</table>

### Problem-Based Learning Discussions

**PBLD-01 • 7:00 – 8:00 am**

**INFECTIONAL COMPLICATIONS ASSOCIATED WITH REGIONAL ANESTHESIA**

**Moderator:** James R. Hebl, MD, Associate Professor of Anesthesiology, Mayo Clinic, Rochester, Minnesota

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Recognize the infectious risks of performing regional anesthesia in febrile or infected patients; (2) Identify the importance and implications of aseptic technique during regional anesthesia; (3) Recognize the infectious risks of performing regional anesthesia in immune compromised patients; and (4) Identify the risk factors associated with infectious complications of peripheral nerve catheters.

**PBLD-02 • 7:00 – 8:00 am**

**PATIENT WITH OSA FOR AMBULATORY SURGERY: WHERE DO YOU DRAW THE LINE?**

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

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Investigate the pathophysiology of sleep apnea syndrome in adults; (2) Identify the importance of appropriate selection of sleep apnea patient and procedure scheduled for ambulatory surgery; and (3) Discuss optimal care that minimizes perioperative risks in sleep apnea patients.

**PBLD-03 • 7:00 – 8:00 am**

**DEALING WITH COAGULOPATHY AFTER CARDIOPULMONARY BYPASS**

**Moderator:** Roman M. Sniecinski, MD, FASE, Assistant Professor of Anesthesiology, Department of Anesthesiology, Division of Cardiothoracic Anesthesia, Emory University School of Medicine, Atlanta, Georgia

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify patients at high risk for post-CPB coagulopathy; (2) Discuss pros and cons of various transfusion approaches to non-surgical bleeding; and (3) Be familiar with pharmacological agents to treat/prevent coagulopathy.

**PBLD-04 • 7:00 – 8:00 am**

**SETTING UP OBSTETRIC ANESTHESIA SERVICES IN THE THIRD WORLD**

**Moderator:** Ling Qun Hu, MD, Assistant Professor of Anesthesiology, Northwestern University, Feinberg School of Medicine, Chicago, Illinois, Founder and Chief Executive Director, No Pain Labor No’ Delivery, Chicago, Illinois

**Learner Objectives:** After participating in this activity, the learner will be able to: (1) Identify pre-existing issues; (2) Set up a mobile anesthesia cart; (3) Generate an obstetric anesthesia protocol; and (4) Create an anesthesia routine checklist for safe effective neuraxial labor analgesia.
**Review Course Lectures**

**RCL-24 • 8:00 – 8:55 am**

**NANOTECHNOLOGY AND THE FUTURE OF ANESTHESIA**

Presenter: D. John Doyle, MD, PhD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic, Cleveland, Ohio

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Describe the state of the art of molecular pharmacology in broad terms as well as; (2) List the anticipated future benefits and possible drawbacks of medical nanotechnology; and (3) Discuss how nanotechnology might be expected to impact on the delivery of anesthesia and critical care medicine.

**RCL-25 • 9:00 – 9:55 am**

**QUALITY, PATIENT SAFETY AND YOUR PRACTICE: WHAT’S ON THE HORIZON?**

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

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Review the definition of quality in healthcare; (2) Recognize current and future regulatory efforts to improve healthcare quality; and (3) Know the role of the AQI in facilitating anesthesia practice quality improvement.

**RCL-26 • 10:00 – 10:55 am**

**PERIOPERATIVE FLUID MANAGEMENT: AQUATIC ASSASSINS?**

Presenter: Tong J. (TJ) Gan, MD, FRCA, MHS, Professor of Anesthesiology, Vice Chair for Clinical Research, Duke University Medical Center, Durham, North Carolina

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Explain the physiology of body fluid compartment and the dynamic movement between compartments; (2) Illustrate the different types of fluids, and the impact of IV fluid on postoperative outcome; (3) Discuss the role of goal-directed approaches in perioperative intravenous fluid therapy; and (4) Discuss the evidence regarding “liberal” vs. “restrictive” fluid administration approaches.

**RCL-27 • 11:00 – 11:55 am**

**ANESTHESIA AND ENDOCRINE FUNCTION – PHEOCHROMOCYTOMA AND BEYOND!**

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

**LEARNER OBJECTIVES:** After participating in this activity, the learner will be able to: (1) Discuss current concepts and new developments in the perioperative care of patients with pheochromocytoma and other endocrine disorders; (2) Review the diagnostic criteria and natural history of endocrine diseases, as well as their pathophysiology, thereby forming the fundamental basis and rationales for optimal perioperative management; and (3) Review clinical scenarios to illustrate and enhance the knowledge regarding the behavior of catecholamine-secreting tumors and to outline current approaches to comprehensive perioperative management of patients with these tumors.


**Panels**

**P-17 • 8:00 – 9:30 am**

**POINT OF CARE (POC) DIAGNOSTICS**

Moderator: Douglas B. Coursin, MD

Panelists:

• **The Push Toward POC Testing: The Good, Bad, and the Ugly**
  Douglas B. Coursin, MD, Professor, Department of Anesthesiology, University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin

• **POC Meter Technology: Measurement of Glucose, Hematocrit, and Coagulation**
  Mark J. Rice, MD, Associate Professor of Anesthesiology, Section Chief, Liver Transplantation and General Surgery Sections, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

• **The Use of POC Meters in the Perioperative Environment**
  Paul G. Barash, MD, Professor of Anesthesiology, Yale School of Medicine, New Haven, Connecticut

• **Evaluation and Purchasing of POC Devices**
  Timothy E. Morey, MD, Executive Associate Chairman, Department of Anesthesiology, Associate Chairman for Research, 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) Explore the reasons for increased POC testing and why we need to proceed with caution; (2) Discuss accuracy, ease of use, interferences for thromboelastography as well as glucose and hematocrit meters; (3) Describe how to use the POC information correctly; and (4) Explain accuracy metrics (BA plots, bias, Clarke and Hb error grids) and factors in making smart purchasing decisions.

**P-18 • 10:00 – 11:30 am**

**EXPLORING THE FUTURE OF ANESTHESIA TECHNOLOGY**

Moderator: D. John Doyle, MD, PhD, Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Staff Anesthesiologist, Department of General Anesthesiology, Cleveland Clinic Foundation, Cleveland, Ohio

Panelists:

• **Transforming Bedside Observations into Clinical Monitors: What is the Pathway Forward?**
  Kirk Shelley, MD, PhD, Professor, Department of Anesthesiology, Yale School of Medicine, New Haven, Connecticut

• **The Future of Anesthesia: Will we be replaced by Robots?**
  Thomas M. Hemmerling, MD, Associate Professor, Department of Anesthesia, McGill University Health System, Montreal, Quebec, Canada

• **Human Error in Anesthesiology — Is More Technology the Answer?**
  Brian Rothman, MD, Assistant Professor, Division of Multispecialty Adult Anesthesiology, Associate Director of Perioperative Informatics, Vanderbilt University Medical Center, Nashville, Tennessee
**SPEAKER DISCLOSURES**

Barash, P. G. – **Grant/Research Support**: Medtronics  
**Consultant**: Masimo

Brown, E. M. – **Consultant**: Merck, Inc.

Brull, S. J. –  
**Consultant**: Merck, Inc.

Chan, V.W.S. – **Grant/Research Support**: SonoSite, GE, Philips, BK Medical

Chung, F. – **Grant/Research Support**: Resmed

Culley, D.J. – **Other**: American Board of Anesthesiology

Davis, P. J. – **Grant/Research Support**: Hospira, Cumberland Pharmaceuticals, Jansen

Durieux, M.E. – **Consultant**: Durect Corp

Gan, T.J. –  
**Speaker’s Bureau**: Baxter, Hospira, Pacira Pharmaceuticals, Cadence, Fresenius-Kabi

**Grant/Research Support**: Acel Rx, Premier, Inc, Cara Therapeutics, Acacia, Cumberland Pharmaceuticals, Pacira Pharmaceuticals, Eisai Pharmaceuticals

Hogue, C.W. –  
**Consultant**: Covidien, Merck

**Speaker’s Bureau**: Covidien

**Grant/Research Support**: Covidien, Ornim, Inc.

Johnson, K.B. –  
**Stock Shareholder**: Applied Medical Visualizations LLC

**Other**: Applied Medical Visualizations, LLC

Joshi, G. P. –  
**Speaker’s Bureau**: Pfizer, Baxter, Cadence, Eisai Pharmaceuticals

**Grant/Research Support**: Baxter

Levy, J. H. –  
**Consultant**: Canyon, CSL Behring, Boehringer-Ingelheim, Exoxemis, Merck, Novo Nordisk, The Medicines Company

**Speaker’s Bureau**: Glaxo Smith Kline, Lilly, Novo Nordisk, ViroPharma

Morey, T.E. –  
**Consultant**: Xhale Inc., NanoMedex Pharmaceuticals Inc.

**Grant/Research Support**: Xhale Inc.

**Stock Shareholder**: Xhale Inc., NanoMedex Pharmaceuticals Inc., Hygreen Inc

**Other**: BOD, NanoMedex Pharmaceuticals, Inc.

Naguib, M. –  
**Consultant**: MSD (Pharmaceutical company in the UK)

**Other**: Named on two patent applications on CB2 agonists submitted by the University of Texas MD Anderson Cancer Center

Pearse, R. –  
**Consultant**: Covidien Inc

**Speaker’s Bureau**: Edwards Lifesciences, Pulsion Medical Systems

**Grant/Research Support**: Lidco Ltd

Picton, P. – **Consultant**: Medtronic ENT.

Rask, J.P. – **Other**: University of New Mexico, honoraria for tracking MOCA sessions

Rasmussen, L.S. – **Grant/Research Support**: AMBU, MSD (Pharmaceutical in UK) (Self/Spouse)

Rathmell, J. P. – **Other**: Pfizer (Spouse)

Schwinn D.A. – **Consultant**: Watson Pharmaceuticals

Shelley, K. – **Other**: Yale University- Developed IP with the potential for royalty in the future

Shook, D.C. – **Other**: Philips Medical, Sorin Group - Educational Speaker

Suresh, S. –  
**Consultant**: Editorial Board, OKO, AAOS

**Other**: Director, ABA, ASRA, and royalty from editor of book

Werner, C. –  
**Consultant**: Abbott

**Speaker’s Bureau**: Abbott
Moderated Poster Discussion Rounds

Friday, May 18
10:00 am – 4:30 pm

Saturday, May 19
8:00 am – 6:00 pm

Sunday, May 20
8:00 am – 4:30 pm
As a result of participating in these CME activities, learners will:

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<th>Poster Session Topic</th>
<th>Learner Objective</th>
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<tr>
<td>Ambulatory Anesthesia</td>
<td>Be able to identify selected advances in the care of patients undergoing ambulatory anesthesia</td>
</tr>
<tr>
<td>Bleeding / Blood Product Conservation</td>
<td>Be able to identify recent pharmaceutical and other advances related to the conservation of blood and blood products</td>
</tr>
<tr>
<td>Cardiothoracic &amp; Vascular – Basic</td>
<td>Be able to discuss the scientific principles of cardiothoracic and vascular physiology and pharmacology</td>
</tr>
<tr>
<td>Cardiothoracic &amp; Vascular - Clinical</td>
<td>Be able to assess current developments in clinical cardiothoracic anesthesia</td>
</tr>
<tr>
<td>Challenging Case Reports</td>
<td>Review medical management of unusual or difficult cases encountered in anesthesia practice</td>
</tr>
<tr>
<td>Critical Care &amp; Trauma</td>
<td>Be able to define selected advances in the disciplines of organ system failure, monitoring and support</td>
</tr>
<tr>
<td>Economics</td>
<td>Be able to explain the concepts of pharmacoeconomic principles and gain insight into cost-effective anesthetic care</td>
</tr>
<tr>
<td>Education &amp; Patient Safety</td>
<td>Be able to recognize selected advances in undergraduate medical education and patient safety</td>
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<tr>
<td>Equipment Monitoring</td>
<td>Be able to identify new developments in anesthesia equipment and monitoring devices and review the recently recognized limitations of current equipment</td>
</tr>
<tr>
<td>Geriatric Anesthesia</td>
<td>Review current advances in the treatment of geriatric patients undergoing anesthesia</td>
</tr>
<tr>
<td>Liver / Transplantation</td>
<td>Investigate current research on patient undergoing liver surgery, especially liver transplantation</td>
</tr>
<tr>
<td>Neuroanesthesia</td>
<td>Review selected basic and clinical developments that influence neuroanesthesia practice</td>
</tr>
<tr>
<td>Obstetric Anesthesia</td>
<td>Review selected advances in obstetric anesthesia</td>
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<tr>
<td>Pain – Basic Science</td>
<td>Review recent developments in the mechanisms and treatment of chronic and perioperative pain</td>
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<tr>
<td>Pain – Clinical – Acute</td>
<td>Be able to discuss the recent advances in clinical management of acute pain and identify the implications of those advances for medical practice</td>
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<tr>
<td>Pain – Clinical – Chronic</td>
<td>Be able to discuss recent advances in clinical management of chronic pain and access the implications of those advances for medical practice</td>
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<tr>
<td>Pediatric Anesthesia – General</td>
<td>Be able to identify selected advances in pediatric anesthesia</td>
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<tr>
<td>Pediatric Anesthesia – Neonatal Safety &amp; Anesthetics</td>
<td>Be able to recognize selected advances in pediatric anesthesia focusing on neonatal safety and anesthetics</td>
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<tr>
<td>Pharmacology – Basic</td>
<td>Investigate advances in basic pharmacology</td>
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<tr>
<td>Pharmacology – Clinical</td>
<td>Discuss advances in pharmacokinetics and pharmacodynamics of agents used in the operating room and perioperative period</td>
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<tr>
<td>Regional Anesthesia</td>
<td>Review recent advances in the application of regional anesthesia in patients undergoing surgical procedures</td>
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### FRIDAY, MAY 18

#### Discussion Times: 10:00 – 11:30 am

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<td>Challenging Case Reports - 1</td>
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<td>Equipment Monitoring - 1</td>
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<td>Obstetric Anesthesia - 1</td>
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#### Discussion Times: 1:00 – 2:30 pm

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<td>Challenging Case Reports - 3</td>
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<td>Education &amp; Patient Safety - 2</td>
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<tr>
<td>Geriatric Anesthesia - 2</td>
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<tr>
<td>Pediatric Anesthesia – General - 1</td>
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#### Discussion Times: 3:00 – 4:30 pm

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<tr>
<td>Critical Care &amp; Trauma - 1</td>
<td>41</td>
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<tr>
<td>Liver / Transplantation - 1</td>
<td>42</td>
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<tr>
<td>Pain – Clinical – Acute - 1</td>
<td>42</td>
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<tr>
<td>Regional Anesthesia - 1</td>
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Abstract Poster Rounds FRIDAY, MAY 18

Challenging Case Reports 1
Abstracts in Poster Discussion Round: CC-83 – CC-88
Presenters in Attendance: 10:00 am – 11:30 am

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

CC-83 BONFILS RETROMOLAR AWAKE INTUBATION FIBERSCOPE IN A CURRENT CASE OF BIPHOSPHONATE-RELATED OSTEONECROSIS OF THE JAW AROUND DENTAL EXTRACTION
A. B. Fernández
Anesthesiology and Critical Care Unit, Ntra Sra de Candelaria University Hospital, Santa Cruz de Tenerife, Spain

CC-84 UNINTENTIONAL SUBDURAL CATHETER PLACEMENT DURING LABOR ANALGESIA
R. Toney, M. N. Rupasinghe
Anesthesiology, University of Texas Health Science Center, Houston, TX

CC-85 INADVERTENT ACUTE AORTIC DISSECTION DETECTED BY AN ABRUPT DROP IN EEG ACTIVITY
M. Dworschak1, H. Rinösl1, K. Skhirtladze-Dworschak1, T. Fleck2, W. Wisser2
1Cardiothoracic and Vascular Anesthesia and Intensive Care Medicine, Medical University of Vienna, Vienna, Austria; 2Cardiac Surgery, Medical University of Vienna, Vienna, Austria

CC-86 WITHDRAWN

CC-87 TETRAPLEGA FOLLOWING CRICOTRACHEAL RESECTION
M. J. Grover, K. Ingram, R. R. Sessions, D. M. Benitez-Rupp
Anesthesiology, UT Health Science Center San Antonio, San Antonio, TX

CC-88 A CHALLENGING CASE REPORT: VENTILATORY MANAGEMENT OF AN UNEXPECTED INTRAOPERATIVE BRONCHIAL INJURY IN THE NON-OPERATIVE LUNG DURING RE-DO IVOR LEWIS PROCEDURE
S. Anderson1, T. Hong1, V. Patel1, M. Castresana1
1Department of Anesthesiology and Perioperative Medicine, Georgia Health Sciences University, Augusta, GA; 2Department of Surgery, Section of Cardiothoracic Surgery, Georgia Health Sciences University, Augusta, GA
Abstract Poster Rounds
FRIDAY, MAY 18
Equipment / Monitoring 1
Abstracts in Poster Discussion Round: S-242 – S-244, S-246, S-256
Presenters in Attendance: 10:00 am – 11:30 am

PR01-05
Poster Moderator: M. London, MD, University of California
San Francisco, San Francisco, CA

S-242 ENDOTRACHEAL INTUBATION USING AIRTRAQ®
LARYNGOSCOPE VERSUS LMA FASTRACH™ IN
ADULT PATIENTS: A COMPARATIVE STUDY
M. Z. Ali, R. Saeed, M. Abdel-Bar, H. Helmy
Anesthesia & S-ICU, Theodor Bilharz Research Institute,
Giza, Egypt

S-243 PERIPHERAL NERVE SIIMULATOR INDUCED
ELECTROSTIMULATION AT P6 POINT REDUCES POST SPINAL
ANESTHESIA INDUCED HYPTENSION DURING SURGERY
K. Al Rawahi, R. Khan, N. Kaul
Al Harthy Complex, Oman

S-244 A COMPARISON BETWEEN NOVICE AND TRAINED
PERSONNEL WHEN USING THE MACINTOSH
LARYNGOSCOPE, THE PENTAX AWS,® THE C-MAC™ AND THE
BONFILS INTUBATION FIBERSCOPE: A MANIKIN STUDY
C. Liaw1, S. Lye2, E. Seet2, K. Koh2
1MOHH, Singapore, Singapore; 2Department of Anaesthesia,
Khoo Teck Puat Hospital, Singapore, Singapore

S-246 AN ALGORITHM FOR COMPUTER CONTROL OF
DRUG DELIVERY BY CONTINUOUS INTRAVENOUS
INFUSION: REDUCTION OF DELIVERY ONSET
LAG TIME IN A LABORATORY MODEL
R. A. Peterfreund4, M. J. Parker1, M. A. Lovich2, N. M. Sims3
1Division of Pulmonary, Critical Care, and Sleep
Medicine, Beth Israel Deaconess Medical Center,
Boston, MA; 2Department of Anesthesiology and Pain
Medicine, St. Elizabeth’s Medical Center, Boston, MA;
3Department of Anesthesia, Critical Care and Pain
Medicine, Massachusetts General Hospital, Boston,
MA; 4Department of Anesthesia, Critical Care and Pain
Medicine, Massachusetts General Hospital, Boston, MA

S-256 U.S. ADOPTION OF ANESTHESIA INFORMATION
MANAGEMENT SYSTEMS (AIMS): RESULTS
FROM A NATIONAL SURVEY
I. S. Stol, W. S. Sandberg, J. M. Ehrenfeld
Vanderbilt University, Nashville, TN
**Obstetric Anesthesia 1**

**Abstracts in Poster Discussion Round: S-327 – S-331**

**Presenters in Attendance: 1:00 pm - 4:30 pm**

**Poster Moderator:** M. Vallejo, MD, Magee-Women’s Hospital of UPMC, Pittsburgh, PA

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**S-327** EXIT PROCEDURE ON-CALL: A CASE OF SUCCESSFUL INTERDISCIPLINARY COMMUNICATION

K. Stiles, G. Shih
Anesthesiology, University of Kansas Medical Center, Kansas City, KS

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**S-328** THE EFFECT OF PROPHYLACTIC ADMINISTRATION OF DEXAMETHASONE FOR NAUSEA OR VOMITING IN GYNECOLOGICAL OR OBSTETRIC SURGERY: A SYSTEM REVIEW AND META-ANALYSIS IN RANDOMIZED CONTROLLED TRIALS

F. Z. Hua
Nanchang, China

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**S-329** EPIDURAL AND INTRATHECAL DRUG INJECTION ERRORS IN OBSTETRIC ANESTHESIA AND ANALGESIA (1981-2011)

S. Patel1, S. Patel2
1Anesthesiology, The Pennine Acute Trust, Rochdale, United Kingdom; 2Obstetrics and Gynaecology, The Royal Bolton Hospital, Bolton, United Kingdom

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**S-330** BETA-2 ADRENERGIC RECEPTOR POLYMORPHISMS AFFECT LABOR PAIN IN NULLIPAROUS WOMEN

A. S. Terkawi1, W. M. Jackson1, S. Hansoti2, R. Tabassum1, P. Flood1
1Department of Anesthesiology, King Farad Medical City, Riyadh, Saudi Arabia; 2Department of Anesthesiology, Columbia University, New York, NY; 3Department of Anesthesiology, University of California, San Francisco, San Francisco, CA

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**S-331** EPHEDRINE VS PHENYLEPHRINE FOR THE MANAGEMENT OF HYPOTENSION DURING SPINAL ANESTHESIA FOR CESAREAN SECTION: AN UPDATED META-ANALYSIS

Q. Li1, F. Lin1, M. Qiu1, X. Ding2
1Department of Anesthesiology, Shanghai Tenth People’s Hospital of Tongji University, Shanghai, China; 2First Clinical College, Nanjing Medical University, Nanjing, China

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**Cardiothoracic and Vascular - Clinical 1**

**Abstracts in Poster Discussion Round: S-47 – S-52**

**Presenters in Attendance: 1:00 pm - 2:30 pm**

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

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**S-47** LIBERALIZED FLUID PROTOCOL AND TISSUE PERFUSION BIOMARKERS IN LUNG RESECTION SURGERY

S. Assaad1,2, M. Perkal3, T. Kyriakides1, G. Tellides1,3, M. Ditillo1,3, A. Perrino2,2
1Anesthesiology and Surgery, VA Connecticut Healthcare Systems, West Haven, CT; 2Anesthesiology, Yale University, School of Medicine, New Haven, CT; 3Surgery, Yale University, School of Medicine, New Haven, CT

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**S-48** SURVEY OF US ACADEMIC INSTITUTIONS REGARDING THE PRACTICE OF LUMBAR CEREBROSPINAL FLUID DRAINS FOR AORTIC ANEURYSM REPAIRS

W. Bradford, H. Arora, P. Kumar
Anesthesiology, UNC Hospitals, Chapel Hill, NC

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**S-49** THE EFFICACY OF NITROUS OXIDE ON FACILITATING LUNG COLLAPSE AT THE INITIATION OF ONE-LUNG VENTILATION WITH BRONCHIAL BLOCKER

T. Yoshimura1,2, K. Ueda1, J. Sawai1,3, Y. Nakata1,3
1Anesthesia, Teikyo University Hospital, Tokyo, Japan; 2Anesthesia, University of Iowa Hospitals and Clinics, Iowa City, IA; 3Graduate School of Public Health, Teikyo University, Tokyo, Japan

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**S-50** DOES LIBERALIZED FLUID PROTOCOL INCREASE LUNG WATER POST LUNG RESECTION SURGERY?

S. Assaad1,2, M. Perkal3, T. Kyriakides1, G. Tellides1,3, A. W. Kim1,3, A. Perrino2,2
1Anesthesiology and Surgery, VA Connecticut Healthcare Systems, West Haven, CT; 2Anesthesiology, Yale University, School of Medicine, New Haven, CT; 3Surgery, Yale University, School of Medicine, New Haven, CT

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**S-51** ANESTHETIC INDUCTION WITH ETOMIDATE, RATHER THAN PROPOFOL, IS ASSOCIATED WITH INCREASED CARDIOVASCULAR MORBIDITY AFTER NON-CARDIAC SURGERY

R. Komatsu1, J. Yair2, E. J. Mushac1, D. I. Sessler1, A. Turan1
1Anesthesiology Institute, Cleveland Clinic, Cleveland, OH; 2Departments of Quantitative Health Sciences and Outcomes Research, Cleveland Clinic, Cleveland, OH; 3Department of Outcomes Research, Cleveland Clinic, Cleveland, OH

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**S-52** HAPTOGLOBIN POLYMORPHISM AND NEW ONSET ATRIAL FIBRILLATION FOLLOWING CORONARY ARTERY BYPASS SURGERY

J. Raphael1, A. Fox1, C. D. Collard2, S. Sherman1, J. D. Muehlischlegel3, S. Body3
1Anesthesiology, University of Virginia, Charlottesville, VA; 2Anesthesiology, Texas Heart Institute, Houston, TX; 3Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital, Boston, MA
**Abstract Poster Rounds**

**FRIDAY, MAY 18**

**Education and Patient Safety 2**

Abstracts in Poster Discussion Round: S-198 – S-203

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

**PR01-09**

**Poster Moderator:** H. Kinoshita, MD, Aichi Medical University, Nagakute, Aichi, Japan

**S-198** A PILOT STUDY: TO DEVELOP A TOOL TO MEASURE THE CLIMATE OF BULLYING AMONG ANESTHESIA CARE PROVIDERS.

S. V. Pisklakov, M. Davidson, C. Schoenberg, D. Munoz
Anesthesiology, UMDNJ-NJMS, Newark, NJ

**S-199** THE USE OF AIRTRAQ IN AN ALTERNATE TEACHING APPROACH TO LEARNING DIRECT LARYNGOSCOPY

V. Ng, T. Straker
Montefiore Medical Center, Bronx, NY

**S-200** ANESTHESIA INFORMATION MANAGEMENT SYSTEMS (AIMS) MEDIATE IMPROVED SCIP COMPLIANCE COMPARED TO HOSPITALS WITHOUT AN AIMS

I. S. Stol, W. S. Sandberg, J. M. Ehrenfeld
Vanderbilt University, Nashville, TN

**S-201** A SIMULATION STUDY OF UNINTENTIONAL CATECHOLAMINE FLUSH DUE TO INAPPROPRIATE RELEASE OF AN INTRAVENOUS LINE OCCLUSION USING SYRINGE PUMP IN INTENSIVE CARE UNIT

T. Kariya¹, T. Miyashita¹, H. Sato¹, H. Kawakami¹, K. Nakamura², T. Goto³
¹Anesthesiology, Yokohama City University Hospital, Yokohama, Japan; ²Emergency Medicine, Yokohama City University Hospital, Yokohama, Japan

**S-202** REDUCING ERRORS IN PATIENT ELECTRONIC MEDICAL RECORDS IN THE PERIOPERATIVE ENVIRONMENT

E. Rebello¹, S. Kee¹, J. Berger¹, A. Kowalski³, N. Harun¹, F. Goravanchi³
¹Anesthesiology and Perioperative Medicine, MD Anderson Cancer Center, Houston, TX; ³Biostatistics, MD Anderson Cancer Center, Houston, TX

**S-203** PHYSICIAN ATTITUDES AND BELIEFS SURROUNDING PERIOPERATIVE DO NOT RESUSCITATE ORDERS: ANESTHESIOLOGISTS’ GROWING COMPLIANCE WITH PATIENT AUTONOMY AND SELF DETERMINATION GUIDELINES

C. Burkle, M. Keegan, K. H. Berge, K. M. Swetz
Rochester, MN

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**Challenging Case Reports 3**

**Abstracts in Poster Discussion Round: CC-95 – CC-100**

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

**PR01-08**

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

**CC-95** HEMODYNAMIC INSTABILITY IN A PATIENT ON AN ANGIOTENSIN CONVERTING ENZYME INHIBITOR UNDERGOING SPINE SURGERY: A CHALLENGING CASE SERIES.

R. Olszewski¹, J. Heitz¹²
¹Anesthesiology, Jefferson University Hospital, Philadelphia, PA; ²Anesthesiology, Thomas Jefferson University, Philadelphia, PA

**CC-96** ANESTHESIA FOR A PATIENT WITH EOSINOPHILIC FASCITIS

J. Vickers, B. L. Ladlie
Anesthesiology, Mayo Clinic Florida College of Medicine, Jacksonville, FL

**CC-97** TELOGEN EFFLUVIUM AFTER ANESTHESIA IN A CHILD: A RARE AND DISTURBING COMPLICATION

C. Abdallah
Anesthesiology, Children’s National Medical Center, Washington, DC

**CC-98** SURGICAL EMERGENCY REQUIRING MASSIVE TRANSFUSION IN A PATIENT WITH TUBEROUS SCLEROSIS

T. Chambers, S. Lei
Pediatric Anesthesiology, Morgan Stanley Children’s Hospital of New York Presbyterian/Columbia, New York, NY

**CC-99** PERIOcular HEMATOMA SECONDARY TO SUBPERIOSTEAL INJURY BY A SHORT NEEDLE: A CHALLENGING CASE REPORT

N. Ahmad, A. Zahoor
Riyadh, Saudi Arabia

**CC-100** CHALLENGING CASE REPORT: POST-OPERATIVE AIRWAY OBSTRUCTION

A. Graham-Carlson, M. Watcha, A. Stone
Pediatric Anesthesiology at Texas Children’s Hospital, Baylor College of Medicine, Houston, TX
Abstract Poster Rounds  FRIDAY, MAY 18

**Geriatric Anesthesia 2**
Abstracts in Poster Discussion Round: S-286 – S-291
Presenters in Attendance: 1:00 pm – 2:30 pm

**S-286**  AN INCREASING INTEREST IN ANESTHESIA AND ALZHEIMER’S DISEASE: PAST, PRESENT, AND FUTURE
S. Kendale, C. Scher
Anesthesiology, New York University, New York, NY

**S-287**  WAIT TIMES TO SURGERY, POST-FRACTURE AUTONOMY & IN-HOSPITAL MORTALITY IN A SUBSET OF HIP FRACTURE PATIENTS
J. Murdoch1, M. Kaspercakievicz1, M. McMullen1, J. Rudan1, R. Allard2, V. Shyam3
1School of Medicine, Queen’s University, Kingston, ON, Canada; 2Anesthesiology & Perioperative Medicine, Kingston General Hospital/ Queen’s University, Kingston, ON, Canada; 3Surgery, Division of Orthopedic Surgery, Kingston General Hospital/ Queen’s University, Kingston, ON, Canada

**S-288**  INFECTION PROMOTION THE DEVELOPMENT OF POSTOPERATIVE COGNITIVE DYSFUNCTION IN ELDERLY RATS
J. Yang, L. Chen, H. Zhang, Z. Li, X. Wang, H. Wang
Chengdu, China

**S-289**  PERIOPERATIVE MANAGEMENT OF ELDERLY HIP FRACTURE PATIENTS WITH CONCOMITANT AORTIC STENOSIS
V. Shyam2, S. Tierney1,2, M. McMullen2, J. Murdoch1, J. Rudan1, R. Allard2
1School of Medicine, Queen’s University, Kingston, ON, Canada; 2Anesthesiology & Perioperative Medicine, Kingston General Hospital/ Queen’s University, Kingston, ON, Canada; 3Department of Surgery, Division of Orthopedic Surgery, Kingston General Hospital/ Queen’s University, Kingston, ON, Canada

**S-290**  POSTOPERATIVE COGNITIVE DYSFUNCTION AFTER FAST-TRACK HIP AND KNEE ARTHROPLASTY
L. Krenk2,3, L. S. Rasmussen1, H. Kehlet1,2,3
1Department of Anaesthesia, Centre of Head and Orthopaedics, Rigshospitalet, University of Copenhagen, Copenhagen, Denmark; 2Section of Surgical Pathophysiology, Rigshospitalet, University of Copenhagen, Copenhagen, Denmark; 3The Lundbeck Centre for Fast-track Hip and Knee Arthroplasty, Copenhagen, Denmark

**S-291**  EXPOSURE OF T25276 MICE TO ISOFLURANE RESULTS IN NO DETECTABLE INCREASE IN Aβ AMYLOID LOAD VIA [18F]AV-45 PET IMAGING CONFIRMED WITH AUTORADIOGRAPHIC INVESTIGATION
C. Rowan1, S. Kenne1, R. M. Craft1, J. Wall1, E. Martin1
1Department of Anesthesiology, University of Tennessee Graduate School of Medicine, Knoxville, TN; 2Preclinical and Diagnostic Molecular Imaging Laboratory, Department of Medicine, University of Tennessee Graduate School of Medicine, Knoxville, TN

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**Pediatric Anesthesia: General Topics 1**
Abstracts in Poster Discussion Round: S-382 – S-387
Presenters in Attendance: 1:00 pm – 2:30 pm

**S-382**  ANESTHETIC CONSIDERATIONS IN LEIGH DISEASE; CASE REPORTS AND LITERATURE REVIEW
A. S. Terkawi1, T. M. Wani1, K. M. Al-Shuaibi1, J. D. Tobias2
1Department of Anesthesiology, King Farad Medical City, Riyadh, Saudi Arabia; 2Department of Anesthesiology, Nationwide Children’s Hospital, Columbus, OH

**S-383**  THE EFFECT OF DEXMEDETOMIDINE ON HEMODYNAMICS AND ELECTROCARDIOGRAPHY OF DEXMEDETOMIDINE IN CHILDREN WITH CONGENITAL HEART DISEASE
S. Fujii1, M. Nagashima1, S. Kitamura1, S. Fujioka1, S. Kawasaki1, T. Nagaro1
1Anesthesiology and Resuscitation, Ehime University Hospital, Toon City, Japan; 2Pediatric Cardiovascular Surgery, Ehime University Hospital, Toon City, Japan

**S-384**  A RANDOMIZED COMPARISON OF THE I-GEL WITH THE PROSEAL LARYNGEAL MASK AIRWAY IN PEDIATRIC PATIENTS
A. Fukuhara, R. Okutani, Y. Oda
Department of Anesthesiology, Osaka City General Hospital and Children’s Hospital, Osaka, Japan

**S-385**  SAFETY AND EFFICACY OF PROSEAL LMA VERSUS CLASSIC LMA IN CHILDREN – A RANDOMIZED CONTROLLED TRIAL
S. Gombar, A. Jafra, D. Kapoor
Department of Anesthesiology & Intensive Care, Government Medical College & Hospital, Chandigarh, India

**S-386**  A RANDOMIZED TRIAL OF INTRA-NASAL DEXMEDETOMIDINE AND SUFENTANIL COMPARED TO ORAL MIDAZOLAM FOR PEDIATRIC DENTAL SEDATION
A. Maru1, C. Heard2,3, R. Mireles1, M. Yarussi1, P. Creighton1
1Pediatric Dentistry, Women & Children’s Hospital of Buffalo, Buffalo, NY; 2Pediatric Anesthesiology, Women & Children’s Hospital of Buffalo, Buffalo, NY; 3Pediatric Critical Care, Women & Children’s Hospital of Buffalo, Buffalo, NY

**S-387**  POPULATION PHARMACOKINETICS (PK) OF DEXMEDETOMIDINE (DEX) IN PEDIATRIC INTENSIVE CARE
E. Ludwig1, J. Fiedler-Kelly1,3, D. Stalker1
1Pharmacometric Services, Cognigen Corporation, Buffalo, NY; 2Global Medical Affairs, Hospira, Inc., Lake Forest, IL; 3Pharmaceutical Sciences, University at Buffalo, Buffalo, NY
Critical Care Medicine and Trauma 1
Abstracts in Poster Discussion Round: S-155 – S-160
Presenters in Attendance: 3:00 pm – 4:30 pm

PR01-13
Poster Moderator: B. Beck-Schimmer, MD, Institute of Anesthesiology, University Hospital Zurich, Zurich, Switzerland

S-155 ABDOMINAL ETIOLOGY FOR MIMICKED ST SEGMENT ELEVATED MYOCARDIAL INFARCTION ON THE ELECTROCARDIOGRAPH
S. Patel
Anesthesia, The Pennine Acute NHS Trust, Rochdale, United Kingdom

S-156 SODIUM BICARBONATE INFUSION IN THE CARDIAC SURGERY PATIENT: A RETROSPECTIVE STUDY
Anesthesiology, Wayne State University/Detroit Medical Center, Detroit, MI

S-157 GOAL-DIRECTED THERAPY AFTER CORONARY ARTERY BYPASS GRAFTING IMPROVES OUTCOME IN PATIENTS WITH SEVERE LEFT VENTRICULAR DYSFUNCTION
A. F. Attaallah1,2, H. H. Abdelwahab2
1Department of Anesthesiology, West Virginia University, Morgantown, WV; 2Department of Anesthesia and Critical Care, Cairo University, Cairo, Egypt

S-158 MECHANISM OF TACHYARRHYTHMIA IN SEPTIC MODEL OF GUINEA PIG
N. Hatakeyama1,2, Y. Aoki1, Y. Yasuda1, Y. Fujiwara3
1Anesthesiology, Aichi Medical University, Nagakute, Japan; 2Anesthesiology, Toyama University Hospital, Toyama, Japan

S-159 RELIABILITY OF OXYGEN SATURATION BY PULSE OXIMETER TO DETECT HYPOXEMIA OF PATIENTS IN THE INTENSIVE CARE UNIT
R. Kanai1,2, K. Moriyama1, T. Kohyama1-2, T. Yorozu1
1Anesthesiology, Kyorin University School of Medicine, Tokyo, Japan; 2Intensive care medicine, Saiseikai Yokohamashi Tobu Hospital, Yokohama, Japan

S-160 RAPID INDUCTION OF THERAPEUTIC HYPOTHERMIA THROUGH AUGMENTED HEAT LOSS FROM THE LUNGS: A FEASIBILITY STUDY IN SWINE
M. M. Kumar1, B. Afessa1, J. L. Atkinson1, L. Johnson1, V. Nayagam1
1Mayo Clinic, Rochester, MN; 2National Center for Space Exploration Research, NASA Glenn Research Center, Cleveland, OH
**Liver / Transplantation 1**

**Abstracts in Poster Discussion Round: S-297 – S-300, S-302**

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

**Poster Moderator:** T. Henthorn, MD, University of Colorado Denver, Aurora, CO

**S-297**

**CISATRACURIUM DOSE-RESPONSE RELATIONSHIP IN PATIENTS WITH LIVER DISEASE**

Hosam Helmy El-Sabae, Mohamed Zeidan, Reeham Saeed, Hisham El-Meseery, Mona Zaki & Mounis Abo-sedira

Anesthesia & S-ICU, Theodor Bilharz Research Institute, Giza, Egypt

**S-298**

**OPTIMISING THE POST OPERATIVE PAIN CONTROL FOR LIVER DONORS – A COMPARATIVE ANALYSIS**

J. Shah, J. Pasnak, J. Butterworth

Anesthesiology, Virginia Commonwealth University Medical Center, Richmond, VA

**S-299**

**THE PERIOPERATIVE CHANGES OF OXIDATIVE STRESS AND ANTIOXIDANT CAPACITY IN PATIENTS UNDERGOING LIVING DONOR LIVER TRANSPLANTATION**

J. Kosaka, H. Morimatsu, N. Obata, T. Matsusaki, R. Kaku, K. Morita

Anesthesiology and Resuscitology, Okayama University Hospital, Okayama, Japan

**S-300**

**INTRACTABLE SEVERE PULMONARY EDEMA DURING ORTHOTOPIC LIVER TRANSPLANT (OLT)**

Y. Morita, K. Fukazawa, B. Ashrafi, E. A. Pretto

Department of Anesthesiology, University of Miami, Miller School of Medicine, Miami, FL

**S-302**

**THE EFFECT OF OCTREOTIDE ON BRAIN INJURY AFTER HEPATIC ISCHEMIA-REPERFUSION IN A RABBIT MODEL**

J. Yang, H. Sun, C. Dong, M. Wang, J. Liu

Changsha, China

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**Pain – Clinical – Acute 1**

**Abstracts in Poster Discussion Round: S-356 – S-361**

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

**Poster Moderator:** N. Sandhu, MD, MS, UCSD Medical Center, VA Medical Center San Diego, San Diego, CA

**S-356**

**MULTIMODAL ANALGESIA IMPROVES THE MANAGEMENT OF BRACHYTHERAPY**

R. Boscariol, N. Eipe, J. Penning, R. Samant, C. Ee

1Anesthesiology, The Ottawa Hospital, Ottawa, ON, Canada; 2Radiation Oncology, The Ottawa Hospital, Ottawa, ON, Canada

**S-357**

**POSTOPERATIVE PAIN EXPERIENCE: RESULTS FROM A HOSPITAL ACUTE PAIN SERVICE**

A. Buvanendran, C. M. Zook, S. C. Toleikis, J. Kroin

Rush Medical College, Chicago, IL

**S-358**

**SUPERFICIAL CERVICAL PLEXUS BLOCKS IMPROVE ANALGESIC OUTCOMES FOLLOWING THYROID SURGERY: A META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS**

K. Doi, H. Hoshijima, N. Kuratani, R. Takeuchi, N. Matsumoto

1Anesthesiology, Saitama Medical University Hospital, Moroyama/Saitama, Japan; 2Anesthesiology, International University of Health and Welfare Hospital, Nasushiobara, Japan

**S-359**

**IS POSTOPERATIVE PAIN UNDERMANAGED AFTER INPATIENT SURGERY?**

A. Buvanendran, S. Rybak, C. M. Zook, S. Jha, M. Moric, J. Kroin

Rush Medical College, Chicago, IL

**S-360**

**PROSPECTIVE COMPARATIVE STUDY OF ANALGESIC EFFICIENCY OF PARAVERTERAL BLOCK WITH ROPIVACAINE (0.2%) AND DEXMEDETOMIDINE + ROPIVACAINE (0.2%) IN RENAL SURGERIES**

G. S. Tomar, A. K. Tiwari, S. Ganguly

Dept. of Anaesthesiology & Critical Care, St. Stephen’s Hospital, New Delhi, India

**S-361**

**PERIOPERATIVE SYSTEMIC LIDOCAINE FOR POSTOPERATIVE ANALGESIA AND RECOVERY AFTER ABDOMINAL SURGERY: A META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS**

Y. Sun, T. Li, T. Gan, N. Wang, Y. Yue

1Anesthesiology, Beijing TongRen Hospital, Capital Medical University, Beijing, China; 2Anesthesiology, Duke Medical Center, Durham, NC; 3Pediatrics, Stanford University School of Medicine, San Francisco,
Poster Moderator: R. Ganta, MD, FRCA, VAMC and OU Medical Center, Oklahoma City, OK

S-472 CAN THE USE OF HIGH DOSE DEXMEDETOMIDINE WITH BUPIVACAINE ELIMINATE THE NEED FOR A PERIPHERAL NERVE CATHETER?
W. Alrayashi, C. Scher, L. Capan
Anesthesiology, New York University Medical Center, New York, NY

S-474 THE EFFECT OF A PREOPERATIVE SCIATIC NERVE BLOCK IN ADDITION TO A FEMORAL NERVE BLOCK FOR AMBULATORY ACL RECONSTRUCTION: A RETROSPECTIVE ANALYSIS
K. Kolodzie1, J. M. Cohen2, S. Shah1, P. Aleshi1
1Department of Anesthesia & Perioperative Care, University of California, San Francisco, San Francisco, CA; 2College of Medicine, University of Illinois at Chicago, Chicago, IL

S-475 A PILOT STUDY TO COMPARE EPIDURAL IDENTIFICATION AND CATHETERIZATION USING A SALINE FILLED SYRINGE VERSUS A NOVEL CONTINUOUS HYDROSTATIC PRESSURE SYSTEM
Y. M. Samhan, H. H. El Sabae, H. F. Khafagy, M. Mahert
Giza, Egypt

S-476 EVALUATION OF PREDICTIVE POWER OF DIFFICULT SPINAL SCORE TO ACTUAL DIFFICULTY DURING SPINAL ANESTHESIA AND ITS COMPLICATIONS
M. Al-Mahrami1,2, M. J. Albahrani1,2, S. Trehun1,2, R. Khan1,2, N. Kaul1,2
1Anaesthesia & ICU, Khoula Hospital, Al harthy Complex, Oman; 2Anaesthesia & ICU, Royal Hospital, Muscat, Oman

S-477 CHARACTERISTICS OF TRANSIENT PARESTHESIA DURING EPIDURAL CATHETER PLACEMENT: THE INCIDENCE AND LOCATION OF PARESTHESIA ACCORDING TO THE VERTEBRAL LEVEL OF THE PUNCTURE
A. Ogura1,2, M. Zenfuku2, Y. Nakajima2, T. Inoue1
1Anesthesiology, Mizonokuchi Hospital, Teikyo University School of Medicine, Kawasaki, Japan; 2Anesthesiology, Shizuoka Red Cross Hospital, Shizuoka, Japan; 1Anesthesiology, Chiba-Hokuso Hospital, Nippon Medical School, Chiba, Japan
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<td><strong>IARS NETWORKING RECEPTION</strong></td>
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<td>7:00 - 8:00</td>
<td>PBLD-01: Regional / J. Hebl, MD</td>
<td>PBLD-02: SASM / G. Jochi, MD, MBBS, FFARCSI</td>
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<tr>
<td>10:00 - 11:30</td>
<td><strong>Clinical Research Symposium</strong></td>
<td><strong>The Role of Specialist Societies in Clinical Outcomes Research: How Can They Take a Lead?</strong></td>
<td>8:00 - 9:30 am</td>
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<td>9:30 - 10:00</td>
<td><strong>IARS WELCOME and Opening General Session</strong></td>
<td>10:00 - 11:30</td>
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<tr>
<td>11:30 am - 4:15 pm</td>
<td><strong>The International Science Symposium Mechanisms of Anesthesia</strong></td>
<td>1:00 - 2:30</td>
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<tr>
<td>10:00 - 11:30</td>
<td><strong>RESIDENT SYMPOSIUM</strong></td>
<td>2:30 - 3:00</td>
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<td>7:00 - 8:00</td>
<td>PBLD-01: SAMBA / S. Butz, MD</td>
<td>PBLD-02: LICAGE / G. Wagerer, MD</td>
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<td>12:00 - 1:00</td>
<td><strong>5:00 pm</strong></td>
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<td>6:30 - 11:30</td>
<td><strong>IARS NETWORKING RECEPTION</strong></td>
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# SATURDAY, MAY 19

## Discussion Times: 8:00 – 9:30 am

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<tr>
<td>Challenging Case Reports - 4</td>
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<tr>
<td>Economics - 1</td>
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<tr>
<td>Education &amp; Patient Safety - 5</td>
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<td>Neuroanesthesia - 1</td>
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<td>Pain – Basic Science - 2</td>
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<td>Pharmacology – Basic Science - 1</td>
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## Discussion Times: 10:00 – 11:30 am

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<td>Challenging Case Reports - 5</td>
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<tr>
<td>Critical Care Medicine &amp; Trauma - 2</td>
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<td>Pain – Clinical – Acute - 2</td>
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<td>Pediatric Anesthesia – General - 2</td>
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<td>Pharmacology – Clinical - 2</td>
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<tr>
<td>Regional Anesthesia - 2</td>
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*Note: Morning session posters are taken down during this time period to make room for afternoon sessions*

## Discussion Times: 1:00 – 2:30 pm

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<tr>
<td>Cardiothoracic &amp; Vascular – Basic - 1</td>
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<td>Challenging Case Reports - 6</td>
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<td>Education &amp; Patient Safety - 4</td>
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<td>Equipment / Monitoring - 3</td>
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<tr>
<td>Obstetric Anesthesia - 2</td>
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<td>Pharmacology – Basic - 2</td>
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## Discussion Times: 3:00 – 4:30 pm

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<tr>
<td>Challenging Case Reports - 2</td>
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<tr>
<td>Equipment Monitoring - 2</td>
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<tr>
<td>Geriatric Anesthesia - 1</td>
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<tr>
<td>Pediatric Anesthesia – Neonatal Safety &amp; Anesthetics - 1</td>
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<td>Pharmacology – Clinical - 1</td>
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<tr>
<td>Regional Anesthesia - 3</td>
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## Discussion Times: 4:30 – 6:00 pm

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<td>Ambulatory Anesthesia – 1</td>
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<td>Challenging Case Reports - 8</td>
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<tr>
<td>Education &amp; Patient Safety - 7</td>
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<td>Equipment Monitoring - 4</td>
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<td>Pharmacology – Basic - 4</td>
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**Abstract Poster Rounds**

**SATURDAY, MAY 19**

**Challenging Case Reports 4**

Abstracts in Poster Discussion Round: CC-102 – CC-106

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

**PR02-01**

**Poster Moderator:** M. Yamakage, MD, Sapporo Medical University, Sapporo, Japan

**CC-102 SPONTANEOUS SPLENIC VEIN BLEEDING DURING PREGNANCY: CONSEQUENCES OF A MISSED DIAGNOSIS**

M. Ajmal
Anesthesiology, Children’s University Hospital, Dublin, Ireland

**CC-103 THE COOL HAND LUKE SYNDROME: FAILURE TO COMMUNICATE THE PREOPERATIVE DNR ORDER**

D. M. Rothenberg, L. Rome
Anesthesiology, Rush University Medical Center, Chicago, IL

**CC-104 ULTRASONIC GUIDANCE AND CENTRAL VENOUS CATHETER INSERTION: DELAYED RECOGNITION OF ARTERIAL PLACEMENT**

J. L. Raytis, M. W. Lew
Anesthesiology, City of Hope, Duarte, CA

**CC-105 ANESTHETIC MANAGEMENT OF A PATIENT WITH VELO-CARDIO-FACIAL SYNDROME USING KETOFOL**

F. Kromah, V. Sampathi, S. Mousavi
Anesthesia, State University of New York, Upstate Medical University Hospital, Syracuse, NY

**CC-106 SEVERE PARADOXICAL VOCAL CORD MOTION AFTER EGD**

C. Li
Anesthesiology, Albany Medical College, Albany, NY

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**Economics 1**

Abstracts in Poster Discussion Round: S-180 – S-186

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

**PR02-02**

**Poster Moderator:** F. Shapiro, DO, Harvard Medical School, Beth Israel Deaconess Medical Center, Boston, MA

**S-180 COST-EFFECTIVENESS ANALYSIS OF ROCURONIUM AND SUGAMMADEX VERSUS SUCCINYLCHOLINE FOR RAPID SEQUENCE INDUCTION**

J. Lundberg, R. P. Insinga
1Department of Health Economic Statistics, Merck & Co., Inc., Whitehouse Station, NJ; 2Outcomes Research, MSD, Sollentuna, Sweden

**S-181 PEDIATRIC SEDATION OUTSIDE THE OPERATING ROOM WITH A PARAMEDIC**

A. Targ, A. Rogers
Targ Mobile Anesthesia, Palo Alto, CA

**S-182 30 OUT OF 50 STATES NOW MANDATE PRIVATE MEDICAL INSURERS MUST PAY CHARGES FOR PEDIATRIC DENTAL SEDATION**

A. Targ
Targ Mobile Anesthesia, Palo Alto, CA

**S-183 ECONOMIC IMPACT OF MULTI-DISCIPLINARY PATHWAY FOR URO-ONCOLOGY SURGICAL SERVICES IN A TERTIARY TEACHING HOSPITAL IN THE UNITED KINGDOM**

T. Quraishi, U. Panchagnula, S. Bansal
Department of Anaesthesia, Central Manchester University Hospitals, Manchester, United Kingdom

**S-184 COST-CONSEQUENCE ANALYSIS OF CLONIDINE FOR THE PREVENTION OF PERIOPERATIVE CARDIOVASCULAR EVENTS IN NONCARDIAC SURGERY PATIENTS**

G. A. Lurati Buse, R. Goeree
1Anesthesiology, University Hospital, Basel, Switzerland; 2Population Health Research Institute, McMaster University, Hamilton, ON, Canada; 3Clinical Epidemiology and Biostatistics, McMaster University, Hamilton, ON, Canada

**S-185 CONTEMPORARY ANALYSIS OF THE INCIDENCE AND ECONOMIC IMPACT OF POSTOPERATIVE PNEUMONIA**

S. J. Agarwal, S. D. Kelley, M. G. Erslon, S. T. Bent
1Covidien, Mansfield, MA; 2Brigham and Women’s Hospital, Boston, MA; 3Tulane University Department of Anesthesiology, New Orleans, LA

**S-186 TIME TRENDS IN INDEMNITY AND OTHER EXPENSE ASSOCIATED WITH MALPRACTICE CLAIMS AGAINST ANESTHESIOLOGISTS, UNITED STATES, 1986-2010**

G. Li, J. Xiong
1Anesthesiology, Columbia University, New York, NY; 2Epidemiology, Columbia University, New York, NY
Abstracts in Poster Discussion Round: S-192, S-216 – S-222

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

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

**S-192** REAL AMOUNT OF DRINKING INVESTIGATION WITH THE PREOPERATION ORAL REHYDRATION THERAPY

Y. Fukushima1, S. Tani2, T. Tateda2
1Anesthesiology, Tama South Regional Hospital, Tama, Japan; 2Anesthesiology, St. Marianna University School of Medicine, Kawasaki, Japan

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**S-216** COMBINED TRAINING OF TECHNICAL AND NONTECHNICAL SKILLS FOR AIRWAY MANAGEMENT IN THE ICU

B. Grande1, M. Kolbe2, M. Weiss2, G. Grote3, D. R. Spahn1,2, P. Steiger3
1Institute of Anesthesiology, University Hospital Zurich, Zurich, Switzerland; 2Management, Technology, and Economics, ETH Zurich, Zurich, Switzerland; 3Surgical Intensive Care, University Hospital Zurich, Zurich, Switzerland

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**S-217** COMPARISON OF RESPONSES AT EMERGENCE TO RESPONSES IN THE PACU IN PATIENTS WHO SPEAK ENGLISH AS A SECOND LANGUAGE

D. Levine, R. Bhansali, B. Dauber, T. Tarsha, D. Glick
Anesthesia and Critical Care, University of Chicago, Chicago, IL

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**S-218** AN ANESTHESIA CRITERION-REFERENCED ASSESSMENT TOOL STRATIFYING LEARNERS BY SKILL LEVEL

W. K. Bernstein1, D. Schreibman1, Y. Zhu1, S. Carter Chase2, I. M. George2,3
1Anesthesiology, University of Maryland, Baltimore, MD; 2MASTRI Center, University of Maryland, Baltimore, MD; 3Surgery, University of Maryland, Baltimore, MD

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**S-219** THE IMPACT OF SELF-ASSESSED LANGUAGE SKILLS AS A PREDICTOR OF LANGUAGE PREFERENCE UPON EMERGENCE

B. Dauber, J. Yin, D. Glick
Anesthesia and Critical Care, University of Chicago, Chicago, IL

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**S-220** COMPARING OF ACROMIOAXILLOSUPRASTERNAL NOTCH INDEX (A NEW TEST) WITH MODIFIED MALLAMPATI TEST IN PREDICTING DIFFICULT LARYNGOSCOPIC VIEW

Tehran, Islamic Republic of Iran

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**S-221** CROSS-CONTAMINATION OF REUSABLE ANESTHESIA EQUIPMENT IN THE OPERATING ROOM

B. Saumande, B. Samyn, B. Lebas, V. Garcia, L. Belotti, P. Diemunsch
Strasbourg, France

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**S-222** CLINICAL USE OF SPECIALIZED AIRWAY DEVICES: THE EVALUATION PROCESS

J. May, E. Crawford, L. Hoke, A. Blevins, R. Calicott, Y. F. Bryan
Anesthesiology, Wake Forest School of Medicine, Winston-Salem, NC

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**Neuroanesthesia 1**

Abstracts in Poster Discussion Round: S-308 – S-314

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

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**S-308** SEVOFLURANE, LARYNGEAL MASK AIRWAY AND SINGLE-DOSE DEXMEDETOMIDINE: A BETTER CHOICE FOR PATIENTS UNDERGOING ENDOVASCULAR COIL EMBOLIZATION

W. Tan, Y. Jiang, H. Ma
Department of Anesthesiology, The First Hospital of China Medical University, Shenyang, China

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**S-309** WITHDRAWN

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**S-310** CEREBRAL ANEURYSM SURGERY AS AMBULATORY DAY SURGERY

N. Goettel, L. Venkatragharaon, P. Manninen
Anesthesia, UHN Toronto Western Hospital, Toronto, ON, Canada

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**S-311** INHIBITION OF BECLIN-1/CLASS III PI3K DEPENDENT AUTOPHAGY BY PROPOFOL PREVENTS NEURONAL PC12 CELLS DEATH DURING GLUCOSE AND OXYGEN DEPRIVATION IN VITRO

D. Cui1, L. Wang1, A. Qi2, Q. Zhou1, X. Zhang1, W. Jiang1
1Anesthesiology, Shanghai Sixth People’s Hospital Affiliated with Shanghai Jiaotong University, Shanghai, China; 2Postgraduate School, Soochow University, Suzhou, China

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**S-312** INTRAOPERATIVE DEXMEDETOMIDINE INFUSION ENHANCES QUALITY OF RECOVERY AND MODULATES CYTOKINE LEVELS AFTER MAJOR SPINE SURGERY

M. M. Haile1, A. Y. Bekker1, S. Didehoar2, M. Urban2, R. P. Kline1
1Anesthesiology, New York University School of Medicine, New York, NY; 2Anesthesiology, Hospital for Special Surgery, New York, NY

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**S-313** INHIBITION OF AUTOPHAGY BY PROPOFOL INCREASES NEURONAL CELL SURVIVAL FOLLOWING CEREBRAL ISCHEMIA–REPERFUSION INJURY IN RATS

D. Cui1, L. Wang1, A. Qi2, Q. Zhou1, X. Zhang1, W. Jiang1
1Anesthesiology, Shanghai Sixth People’s Hospital Affiliated with Shanghai Jiaotong University, Shanghai, China; 2Postgraduate School, Soochow University, Suzhou, China

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**S-314** COMPARISON OF RECOVERY TIMES FROM ROCURONIUM INDUCED MUSCLE RELAXATION AFTER REVERSAL WITH THREE DIFFERENT DOSES OF SUGAMMADEX AND SUCCINYLCHOLINE DURING ELECTROCONVULSIVE THERAPY

Y. Kadoi
Maebashi, Japan
Abstract Poster Rounds

**Pain – Basic Science 2**

Abstracts in Poster Discussion Round: S-346, S-348 – S-350

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

**PR02-05**

**Poster Moderator:** A. Buvanendran, MD, Rush University Medical Center, Chicago, IL

**S-346 ROLE OF SPINAL VOLTAGE SENSITIVE CALCIUM CHANNELS ON NOCICEPTIVE BEHAVIOR AND EXCITATORY NEUROTRANSMISSION**

T. Takasusuki\(^1\), K. Nemoto\(^1\), S. Yamaguchi\(^1\), T. Yakshi\(^2\)

\(^1\)Anesthesiology, Dokkyo Medical University, Mibu, Japan; \(^2\)Anesthesiology, University of California, San Diego, La Jolla, CA

**S-348 HYPERBARIC OXYGENATION ALLEVIATES CCI-INDUCED NEUROPATHIC PAIN THROUGH INHIBITING PRO-APOTOPSIS GENES OVER-EXPRESSION IN THE SPINAL CORD**

J. Du, R. Yousif, D. Foster, F. Li, Z. Yang

Anesthesiology, Upstate Medical University, Syracuse, NY

**S-349 THE INVOLVEMENT OF OPIOID RECEPTORS IN THE EXERCISE-INDUCED CARDIOPROTECTION AGAINST ISCHEMIA-REPERFUSION INJURY IN VIVO**

M. Lessa, J. Borges, L. Paes, E. Tibirica

Laboratory of Cardiovascular Investigation, Oswaldo Cruz Foundation, Rio De Janeiro, Brazil

**S-350 GLYCEMIC CONTROL AND SCIATIC NERVE BLOCK DURATION IN DIABETIC RATS**

J. Kroin, K. J. Tuman, A. Buvanendran

Rush Medical College, Chicago, IL

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**Pharmacology – Basic Science 1**

Abstracts in Poster Discussion Round: S-412 – S-417

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

**PR02-06**

**Poster Moderator:** R. Avitsian, MD, Cleveland Clinic, Cleveland, OH

**S-412 A CENTURY IN PURSUIT OF THE UNITARY IDEAL: CAUSES AND CONSEQUENCES**

M. Perouansky

Anesthesiology, University of Wisconsin SMPH, Madison, WI

**S-413 OREXIN-A FACILITATES EMERGENCE FROM PROPOFOL ANESTHESIA IN RAT**

H. Dong

Department of Anesthesiology, Xijing Hospital, Xi’an, China

**S-414 PROPOFOL ENHANCES THE FIELD EXCITATORY POSTSYNAPTIC POTENTIALS IN CAT HIPPOCAMPAL SLICES OF YOUNG AND AGED MICE**

Y. Yin\(^1\), B. Middleton\(^1\), C. Florez\(^2\), H. Beheiry\(^3\), P. L. Carlen\(^1\)

\(^1\)Toronto Western Hospital, University of Toronto, Toronto, ON, Canada; \(^2\)Toronto Western Research Institute, Toronto, ON, Canada; \(^3\)Trillium Hospital, Toronto, ON, Canada

**S-415 PHAXAN™, A CAPTISOL®-ENABLED WATER SOLUBLE PREPARATION OF ALPHAXALONE FOR INTRAVENOUS ANESTHESIA AND SEDATION: COMPARISON OF TOXICITY WITH PROPOFOL AND ALTHESIN® IN RATS**

C. S. Goodchild\(^1,2\), A. Kolosov\(^1\), B. Boyd\(^2\), J. M. Serrao\(^1\)

\(^1\)Monash Institute of Medical Research, Monash University, Clayton, VIC, Australia; \(^2\)Faculty of Pharmacy and Pharmaceutical Sciences, Monash University, Parkville, VIC, Australia; Drawbridge Pharmaceuticals Pty Ltd, Malvern, VIC, Australia

**S-416 EFFECT OF BRAIN LIDOCAINE CONCENTRATION ON PROPOFOL SEDATION IN RATS**

H. Ma\(^1,2\), J. Mao\(^1\), J. Meng\(^1\), X. Chen\(^1\), N. Zhang\(^1\), Y. Saito\(^2\)

\(^1\)Anesthesiology Department, General Hospital of Ningxia Medical University, Yinchuan, China; \(^2\)Anesthesiology Department, Shimane University Faculty of Medicine, Izumo, Japan

**S-417 LIDOCAINE AND ROPIVACAINE, BUT NOT CHLORPROCAINE, ATTENUATE TNF-ALPHA INDUCED SRC ACTIVATION, ICAM-1 PHOSPHORYLATION AND MIGRATION OF HUMAN LUNG CANCER CELLS INDEPENDENTLY FROM SODIUMCHANNEL INHIBITION**

T. Piegeler\(^2,3\), E. Votta-Velis\(^2\), B. Beck-Schimner\(^4\), D. E. Schwartz\(^2\), R. D. Minshall\(^2,3\), A. Borgeat\(^4\)

\(^1\)Institute of Anesthesiology, University Hospital Zurich, Zurich, Switzerland; \(^2\)Department of Anesthesiology, University of Illinois Hospital & Health Sciences System, Chicago, IL; \(^3\)Department of Pharmacology, University of Illinois Hospital & Health Sciences System, Chicago, IL; \(^4\)Division of Anesthesiology, Balgrist University Hospital Zurich, Zurich, Switzerland
**CC-107** IMPORTANCE OF COMMUNICATION BETWEEN MULTIDISCIPLINARY TEAMS DURING OBSTETRIC EMERGENCY  
J. Rivers, R. R. Donald  
Anesthesiology and Perioperative Medicine, Georgia Health Sciences University, Augusta, GA

**CC-108** A TRIPLE CHALLENGE: BILATERAL CATARACT SURGERY IN A PATIENT WITH TRISOMY 21, UNREPAIRED ATRIOVENTRICULAR CANAL, AND EISENMEMGER’S SYNDROME  
J. R. Wingate, J. Eisner, E. Heitmiller  
Anesthesiology and Critical Care Medicine, Johns Hopkins University, Baltimore, MD

**CC-109** ANESTHETIC MANAGEMENT OF A 31 YEAR OLD MALE WITH PENETRATING CHEST INJURY AFTER A NAIL GUN ACCIDENT  
I. Onamade, R. Ortega  
Anesthesiology, Boston University Medical Center, Boston, MA

**CC-110** CHALLENGING CASE REPORT: POSTERIOR REVERSIBLE ENCEPHALOPATHY SYNDROME (PRES) IN AN OBESE POSTPARTUM FEMALE WITH SPINAL CATHETER  
H. Fox, G. H. Shih  
Kansas City, KS

**CC-111** THE IMPLICATIONS OF EPILEPSY AND ATYPICAL LANGUAGE ORGANIZATION IN BILINGUAL PATIENTS UPON EMERGENCE FROM GENERAL ANESTHESIA  
T. Tarsha, B. Dauber, R. Bhansali, D. Levine, N. Pirzani, D. Glick  
Anesthesia and Critical Care, University of Chicago, Chicago, IL

**CC-112** A CASE OF FAILED NEURAXIAL ANESTHESIA IN A PARTURIENT WITH MARFAN’S SYNDROME  
R. Rifaey, L. Kulicki, K. Shaw  
Anesthesiology, University of Connecticut, Farmington, CT

**CC-113** THE NOVEL USE OF CLEVIDIPINE FOR INTRAOPERATIVE BLOOD PRESSURE MANAGEMENT IN PHEOCHROMOCYTOMA PATIENTS  
A. F. Attaallah, E. J. Lindstrom  
Department of Anesthesiology, West Virginia University, Morgantown, WV

**CC-114** THE ROLE OF NRF2 IN INNATE IMMUNE RESPONSE AND SURVIVAL DURING SEPTIC SHOCK IN CRITICALLY ILL ADULTS  
R. Fuchs¹, S. Noel², L. Zheng², R. Thimmulappa², A. Navas-Acien², S. Biswal²  
¹Anesthesiology and Critical Care Medicine, Johns Hopkins University, Baltimore, MD; ²Environmental Health Science, Johns Hopkins School of Public Health, Baltimore, MD

**CC-115** INHALED HYDROGEN SULFIDE PREVENTS ENDOTOXIN-INDUCED SYSTEMIC INFLAMMATION AND IMPROVES SURVIVAL BY ALTERING SULFIDE METABOLISM IN MICE  
K. Tokuda, E. Marutani, K. Kida, F. Ichinose  
Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Charlestown, MA

**CC-116** SODIUM SULFIDE PREVENTS WATER DIFFUSION ABNORMALITY IN THE BRAIN AND IMPROVES LONG TERM OUTCOME AFTER CARDIAC ARREST IN MICE  
K. Kida, S. Minamishima, F. Ichinose  
Department of Anaesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital and Harvard Medical School, Boston, MA
**S-388 Giant Occipital Encephalocele: A New Paradigm**

P. Kundra, A. Vasudevan  
Pondicherry, India

**S-389 GlideScope Reduces Laryngoscopy Associated Laryngospasm in 1,200 Consecutive Pediatric Nasal Intubations Without Muscle Relaxant**

A. Targ, T. West, N. Noone  
Targ Mobile Anesthesia, Palo Alto, CA

**S-390 Caudal Anesthesia for Pediatric Cardiac Catheterization**

J. Bjerregaard, R. Williams  
Department of Anesthesiology, Fletcher-Allen Healthcare, University of Vermont, Burlington, VT

**S-392 A Phase II/III, Open-Label, Multicenter, Safety, Efficacy and Pharmacokinetic Study of Dexmedetomidine in Neonates Ages 28 Weeks to 44 Weeks Gestational Age**

C. Chrysostomou, S. Schulman, M. Polak, M. Herrera, B. Cofer, L. Gramlich  
1Children’s Hospital of Pittsburgh of UPMC, Pittsburgh, PA; 2Duke University Medical Center, Durham, NC; 3West Virginia University, Morgantown, WV; 4Roosevelt Hospital, Guatemala City, Guatemala; 5Greenville Hospital System, Greensville, SC; 6Loyola University Medical Center, Maywood, IL

**S-393 A Phase III, Randomized, Double-Blind, Dose-Controlled, Multicenter Study of the Safety and Efficacy of Dexmedetomidine in Mechanically Ventilated Children**

1Stanford University, Stanford, CA; 2Children’s Hospital of Pittsburgh, Pittsburgh, PA; 3Children’s Hospital Los Angeles, Los Angeles, CA; 4University of Wisconsin, Madison, WI; 5Duke University Medical Center, Durham, NC
**Abstracts in Poster Discussion Round: S-450 – S-453, S-455**

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

**S-450  CLINICAL EFFICACY OF THE COMBINATION OF PROPOFOL AND KETAMINE (KETOFOL) FOR DEEP SEDATION FOR COLONOSCOPIC PROCEDURE**

S. Amornyotin, W. Chalayonnawin, S. Kongphlay
Anesthesiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

**S-451  DEEP SEDATION FOR COLONOSCOPY IN OVERWEIGHT PATIENTS: A COMPARISON BETWEEN PROPOFOL ALONE VERSUS PROPOFOL AND KETAMINE**

S. Amornyotin, S. Kongphlay
Bangkoknoi, Thailand

**S-452  PREDICTION OF ADDITIONAL SUGAMMADEX IN A SHORT RECOVERY PHASE IN PEDIATRIC PATIENTS**

H. Iwasaki¹, K. Takahoko¹, S. Otomo¹, T. Sasakiw², T. Kanisawa³, H. Iwasaki²
¹Department of Anesthesiology and Critical Care Medicine, Asahikawa Medical University, Asahikawa, Japan; ²Department of Anesthesiology, Shriners Burns Institute Shriners Hospital for Children, Massachusetts General Hospital, Harvard Medical School, Boston, MA

**S-453  THE IMPACT OF PROTEIN BINDING AND HEPATIC BLOOD FLOW ON SUFENTANIL PHARMACOKINETICS DURING CARDIAC SURGERY WITH CARDIOPULMONARY BYPASS**

Anesthesiology, University of Toronto, Toronto, ON, Canada

**S-455  ROCURONIUM NEUROMUSCULAR BLOCKADE IS POTENTIATED BY ONDANSETRON**

O. Desjardins St-Jean, L. Fortier, F. Donati
Anesthesia, University of Montreal, Montreal, QC, Canada

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**Regional Anesthesia 2**

**Abstracts in Poster Discussion Round: S-478 – S-481**

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

**S-478  THE EFFECT OF MUSIC ON PATIENTS’ INTRA–OPERATIVE ANXIETY IN ORTHOPEDIC SURGERY UNDER SPINAL ANESTHESIA**

R. Traiyawong
Anesthetic Nursing Department, Maharat Nakhonratchasima Hospital, Muang, Thailand

**S-479  COMBINED LUMBER PLEXUS–SCIATIC NERVE–PARAVERTEBRAL NERVE BLOCK FOR HIP ARTHROPLASTY: A COMPARATIVE STUDY**

Z. Xu, Y. Huang
Department of Anesthesiology, Peking Union Medical College Hospital, Beijing, China

**S-480  WITHDRAWN**

**S-481  DOSE RANGING EFFECTS OF INTRATECHAL EPINEPHRINE ON ANESTHESIA/ANALGESIA: A META-ANALYSIS AND META-REGRESSION OF RANDOMIZED CONTROLLED TRIALS**

G. S. De Oliveira, R. J. McCarthy
Chicago, IL

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**Cardiothoracic and Vascular – Basic Science 1**

**Abstracts in Poster Discussion Round: S-26 – S-29**

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

**S-26  HEMOGLOBIN THRESHOLDS FOR TISSUE HYPOXIA IN ANEMIC MICE**

G. Hare¹, K. Lee¹, A. K. Tsui², D. Mazer³, M. Henkelman⁴, P. A. Marsden¹²
¹Anesthesia, University of Toronto, Toronto, ON, Canada; ²Medicine, University of Toronto, Toronto, ON, Canada; ³Medical Biophysics, University of Toronto, Toronto, ON, Canada

**S-27  ISOFLURANE PROTECTS THE MURINE HEART AGAINST ISCHEMIC INJURY VIA THE PRESERVATION OF MITOCHONDRIAL RESPIRATION AND ITS SUPRAMOLECULAR ORGANIZATION**

C. Lotz¹, J. Zhang², C. Fang³, P. Ping¹, T. Smul³
¹Anesthesiology, University of Wuerzburg, Wuerzburg, Germany; ²Physiology, University of California at Los Angeles, Los Angeles, CA

**S-28  HIGH DOSE BETA-BLOCKADE ACCENTUATED CEREBRAL HYPOXIA IN ANEMIC RATS**

G. Hare¹, T. Hu¹, S. Beattie¹, H. Leong_Poi¹, D. F. Wilson³, D. Mazer¹
¹Anesthesia, University of Toronto, Toronto, ON, Canada; ²Medicine, University of Toronto, Toronto, ON, Canada; ³Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA

**S-29  EPINEPHRINE EXPOSURE ALTERS GENE EXPRESSIONS RELATED TO CARDIAC FIBROSIS IN CULTURED RAT CARDIOMYOCYTES**

H. Liu, C. J. Fox, S. Bent, S. Gomez, F. A. Rosinia, P. Kalarickal
New Orleans, LA
**Abstract Poster Rounds**  
*SATURDAY, MAY 19*

**Education and Patient Safety 4**  
Abstracts in Poster Discussion Round: S-211 – S-215  
Presenters in Attendance: 1:00 pm – 2:30 pm

**Poster Moderator:** S. Sundar, MD, Beth Israel Deaconess Medical Center, Boston, MA

**S-211 GOAL DIRECTED USER TRAINING IMPROVES EFFICIENCY OVER CENTRICITY ANESTHESIA DURING TO EPIC ANESTHESIA AS A COMPONENT OF A SYSTEM WIDE EMR**  
L. C. Jameson, J. Negin, K. Bullard  
Department of Anesthesiology, University of Colorado, Aurora, CO

**S-212 MULTIMEDIA APP FOR ANESTHESIOLOGY: INTERACTIVE LEARNING AND SELF ASSESSMENT**  
C. M. Kim, N. Tahir, P. Sekhar, R. Azocar  
Boston, MA

**S-213 CHARTING OF ESSENTIAL ANESTHESIA ELEMENTS IS LESS RELIABLE IN EPIC THAN IN CENTRICITY**  
L. C. Jameson, J. Vasquez, K. Bullard  
Department of Anesthesiology, University of Colorado, Aurora, CO

**S-214 LARYNGEAL MORBIDITY AFTER INTUBATION WITH ENDOFLEX® TUBE VERSUS A CONVENTIONAL ENDOTRACHEAL TUBE WITH STYLET - A RANDOMIZED TRIAL**  
M. K. Sørensen  
1Department of Anaesthesia, Centre of Head and Orthopaedics, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark; 2Department of Otorhinolaryngology, Centre of Head and Orthopaedics, Copenhagen University Hospital, Rigshospitalet, Copenhagen, Denmark

**S-215 GO WITH THE FLOW: A TWO-WEEK LOW FLOW AND CLOSED CIRCUIT ANESTHESIA ELECTIVE FOR PEDIATRIC ANESTHESIA CLINICAL FELLOWS: EXPERIENCE OF THE FIRST TWO YEARS**  
A. Navedo  
1Department of Anesthesiology, Perioperative and Pain Medicine, Children’s Hospital Boston, Boston, MA; 2Harvard Medical School, Boston, MA

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**Poster Moderator:** M. Lovrincevic, MD, Roswell Park Cancer Institute, Buffalo, NY

**CC-114 MANAGEMENT OF TRAUMA PATIENT WITH BULLET LODGED IN WALL OF INFERIOR VENA CAVA**  
K. R. Yates, B. Skulpournkitti, K. Chaudhuri  
Anesthesiology, Texas Tech Health Sciences Center, Lubbock, TX

**CC-115 POSTOPERATIVE TRACHEAL TEAR AND STENT PLACEMENT OVER GUIDEWIRE IN A PATIENT WITH ARDS AND KNOWN DIFFICULT AIRWAY**  
J. L. Raytis, M. W. Lew  
Anesthesiology, City of Hope, Duarte, CA

**CC-116 A COMPLICATED CASE OF INTRACRANIAL HYPOTENSION CAUSED BY ANTERIOR CERVICAL CEREBROSPINAL FLUID LEAK ALLEVIATED BY A THORACOCERVICAL EPIDURAL BLOOD PATCH**  
P. Guler1,2, F. S. Buonanno2,3  
1Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, MA; 2Neurology, Massachusetts General Hospital, Boston, MA; 3Harvard Medical School, Boston, MA

**CC-117 PITUITARY APOPLEXY MIMICKING POST-DURAL PUNCTURE HEADACHE**  
J. Lachmansingh, K. Chaudhuri, C. Vogt-Harenkamp, S. Yazdani, B. Hirsch  
Anesthesiology, Texas Tech Health Sciences Center, Lubbock, TX

**CC-118 MANAGEMENT OF A PATIENT WITH IMPALED FENCE POST THROUGH LEFT SIDE OF CHEST**  
C. Walter, C. Peña, K. Chaudhuri, J. Wasnick  
Anesthesiology, Texas Tech University Health Science Center, Lubbock, TX

**CC-119 PYRIFORM FOSSA TRAUMA AND ESOPHAGO-MEDIASTINAL FISTULA FOLLOWING SUCCESSFUL GLIDESCOPE® INTUBATION**  
S. Stern, J. B. Gross  
Department of Anesthesiology, University of Connecticut School of Medicine, Farmington, CT
Abstract Poster Rounds
SATURDAY, MAY 19
Obstetric Anesthesia 2
Abstracts in Poster Discussion Round: S-332 – S-336
Presenters in Attendance: 1:00 pm – 2:30 pm

PR02-17
Poster Moderator: I. Batai, MD, University of Pecs, Pecs, Hungary

S-332 INTRAPERITONEAL FETAL KETAMINE FOR IMMOBILITY DURING CORDOCENTESIS AND FETAL TRANSFUSION
S. K. Patteson, M. Graham
Anesthesiology, University of Tennessee Medical Center, Knoxville, TN

S-333 DOES THE ADDITION OF ONDANSETRON TO IV-PATIENT CONTROLLED NALOXONE FURTHER IMPROVES POST C/S EPIDURAL -FENTANYL INDUCED PRURITUS TREATMENT?
S. Shah, S. Cohen, S. Zisa, A. Mohammed, P. Patel, S. Barsoum
Anesthesiology, RWJMS-UMDNJ, New Brunswick, NJ

S-334 HEMODYNAMIC PROFILE OF PATIENTS HAVING CESAREAN DELIVERY UNDER SPINAL ANESTHESIA OBTAINED BY CONTINUOUS MEASUREMENT OF CARDIAC OUTPUT AND STROKE VOLUME
Y. Liu, M. M. Pian-Smith, L. R. Leffert, R. Minehart, R. M. Kacmarek, Y. Jiang
Massachusetts General Hospital, Boston, MA

S-335 EFFECT OF POSITIONING FROM SUPINE AND LEFT RECUMBENT TO LEFT SEMI RECUMBENT ON MATERNAL BLOOD FLOW VELOCITIES AND WAVE FORMS IN FULL TERM PARTURIENTS
P. Kundra, J. Velraj, U. Amirthalingam, S. Habeebulah
Pondicherry, India

S-336 WITHDRAWN

Equipment / Monitoring 3
Presenters in Attendance: 1:00 pm – 2:30 pm

PR02-16
Poster Moderator: M. Ozaki, MD, PhD, Tokyo Women’s Medical University, Tokyo, Japan

S-253 THE EFFECT OF BEACH CHAIR POSITION ON BIS VALUES DURING GENERAL ANESTHESIA
S. Kawanishi1, M. Matsumi2, H. Morimatsu1, T. Takahashi3, K. Morita4
1Emergency and Critical Care Center, Tsuyama Central Hospital, Okayama, Japan; 2Department of Anesthesiology, Ryusoh Orthopedic Hospital, Okayama, Japan; 3Department of Anesthesiology and Resuscitology, Okayama University Graduate School of Medicine and Dentistry, Okayama, Japan; 4Faculty of Health and Welfare Science, Okayama Prefectural University, Okayama, Japan

S-254 EVALUATION OF THE AMBU ASCOPE 2 VIDEO BRONCHOSCOPE FOR ELECTIVE AND EMERGENCY AWAKE INTUBATION
K. P. Rothfield1,2, M. Ewing1, N. Htu1, S. Langlois1, K. Lopez1, M. Winik1,2
1Anesthesiology, Saint Agnes Hospital, Baltimore, MD; 2Nurse Anesthesia Training Program, University of Maryland, Baltimore, MD

S-255 THE SENSASCOPE: A LEARNING CURVE DEPENDING OF THE USERS’ EXPERIENCE
F. Dimache, N. Stojeba, M. Baron, A. Nastasie, P. Diemunsch
Anesthesiology and Intensive Care, Strasbourg University Hospital, Strasbourg, France

S-256 NON-INVASIVE HEMOGLOBIN MONITORING DURING CARDIOVASCULAR SURGERY
M. L. Riess1,2, D. Nabor1, B. Ekstrom1, P. S. Pagel1,2
1Medical College of Wisconsin, Milwaukee, WI; 2Anesthesiology, VA Medical Center, Milwaukee, WI

S-257 PULSE TRANSIT TIME CAN PREDICT THE HEMODYNAMIC EFFECTS OF POSITIVE PRESSURE VENTILATION
K. Yamashita, T. Kawano, T. Yatabe, H. Abe, M. Yokoyama
Anesthesiology and Critical Care Medicine, Kochi Medical School, Nankoku, Japan
Abstract Poster Rounds

Pharmacology – Basic Science 2
Abstracts in Poster Discussion Round: S-418 – S-422
Presenters in Attendance: 1:00 pm – 2:30 pm

PR02-18

Poster Moderator: T. Krejcie, MD, Northwestern Feinberg School of Medicine, Chicago, IL

S-418 CARBOETOMIDATE INHIBITS α4β2 NEURONAL NICOTINIC ACETYLCOLINE RECEPTORS AT CLINICALLY RELEVANT CONCENTRATIONS
S. A. Forman, D. W. Pierce, E. Pejo, M. Haburcak, D. E. Raines
Anesthesia Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, MA

S-419 WITHDRAWN

S-420 THE APPLICATION OF MIDAZOLAM ON DEVELOPING NEURONS INDUCES PROFUND CHANGES IN GABAA RECEPTOR EXPRESSION
B. Sinner1, O. Friedrich2, B. M. Graf3
1Department of Anesthesiology, University of Regensburg, Regensburg, Germany; 2Medical Biotechnology, University of Erlangen-Nueremberg, Erlangen, Germany

S-421 ANESTHETIC EFFECTS ON SYNAPTIC GABAA RECEPTORS CONTAINING D3 SUBUNITS ARE QUANTITATIVELY SIMILAR TO RECEPTORS CONTAINING D2
S. A. Forman, M. Haburcak, D. Stewart, Y. Jounaidi
Anesthesia Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, MA

S-422 ALPHA-E432: A NOVEL TORPEDO NICOTINIC ACETYLCOLINE RECEPTOR AZI OCTANOL PHOTOLABEL SITE
P. Dershwitz1, Z. Dostalov1, K. Parker1, D. Stewart1, K. W. Miller3, S. A. Forman1
1Anesthesia Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, MA; 2Virginia Instruments Corp., Sudbury, MA

Challenging Case Reports 2
Presenters in Attendance: 3:00 pm – 4:30 pm

PR02-19

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

CC-89 PERIOPERATIVE MANAGEMENT OF PATIENT WITH HEREDITARY ANGIOEDEMA FOR WISDOM TEETH EXTRACTION
N. Doiron, E. Cox
Knoxville, TN

CC-90 ANESTHETIC IMPLICATIONS IN A CHILD WITH HEMOGLOBIN H–CONSTANT SPRING DISEASE
C. Abdallah, W. Daley
Anesthesiology, Children’s National Medical Center, Washington, DC

CC-92 CHALLENGING CASE REPORT: EPIDURAL ANESTHESIA IN AN ACHONDROPLASTIC DWARF WITH A VENTRICULOPERITONEAL SHUNT
P. Sekhar, E. Feliz
Boston, MA

CC-93 ANESTHETIC CONSIDERATIONS IN A PATIENT RECEIVING A TRASNPLANTED HEART PROCURED FROM A DONOR EXPOSED TO CARBON MONOXIDE
J. R. Rentz1, R. Dinavahi1, J. Chen1, R. Kazim1
1Division of Pediatric Anesthesiology, Columbia University, New York, NY; 2Division of Cardiothoracic Surgery, Columbia University, New York, NY

CC-94 INTRA-OPERATIVE PONTINE INFARCTION: A HIDDEN CHALLENGE
N. Marcanthony, E. Farag
Anesthesiology, Cleveland Clinic, Cleveland, OH
S-247 AN AFFORDABLE MINIATURE MACHINE FOR PEDIATRIC ANESTHESIA OUTSIDE THE OPERATING ROOM
A. Targ
Targ Mobile Anesthesia, Palo Alto, CA

S-248 AMOUNT OF ACCIDENTAL MEDICATION FLUSH BY SYRINGE PUMP DUE TO INAPPROPRIATE RELEASE OF OCCLUDED INTRAVENOUS LINE
H. Kawakami, T. Miyashita, R. Yanaizumi, H. Sato, T. Kariya, T. Goto
Department of Anesthesiology, Yokohama City University, Yokohama, Japan

S-249 COMPARISON OF AIRWAY SCOPE® AND AIRTRAQ® FOR TRACHEAL INTUBATION IN INFANT WITH AND WITHOUT CHEST COMPRESSIONS — A MANNEQUIN STUDY
A. Tampo1, A. Suzuki1, S. Sako1, T. Kunisawa1, H. Iwasaki1, S. Fujita1
1Emergency, Asahikawa Medical University, Asahikawa, Japan; 2Anesthesiology & Critical Care Medicine, Asahikawa Medical University, Asahikawa, Japan

S-250 TOTAL INTRAVENOUS ANESTHESIA USING EITHER BISPECTRAL INDEX MONITORING OR TARGET CONTROLLED INFUSION IN MAJOR ABDOMINAL SURGERY
S. El-Hadi1, M. M. Omran2
1Anesthesia, Faculty of Medicine, Alexandria, Egypt; 2Anesthesia, Royal Hayat Hospital, Kuwait, Kuwait

S-251 BULLARD LARYNGOSCOPE TIP SEPARATION
C. C. Wold, M. J. Rice
University of Florida, Gainesville, FL

S-252 A NEW JACKSON TABLE AUGMENTS TISSUE INTERFACE PRESSURE IN THE PRONE POSITION
Y. Miyake1, H. Kinoshita1, H. Maeda1, M. Yamashita1, M. Hirayama2, M. Kawakami2
1Nursing, Wakayama Medical University Kihoku Hospital, Katsuragi-cho, Japan; 2Anesthesiology, Wakayama Medical University, Wakayama, Japan; 3Orthopedic Surgery, Wakayama Medical University Kihoku Hospital, Katsuragi-cho, Japan

S-280 PARADOXICAL FEATURES OF NITROUS OXIDE-OXYGEN-REMIFENTANIL ANESTHESIA
Anesthesiology, Social Insurance Chuo General Hospital, Shinjyuku, Japan

S-281 PROPOFOL DEEP SEDATION FOR SMALL BOWEL ENTEROSCOPY PROCEDURE IN ELDERLY PATIENTS IN A DEVELOPING COUNTRY
S. Konphlay, S. Amornyotin
Bangkoknoi, Thailand

S-282 PROPOFOL DEEP SEDATION FOR ELDERLY PATIENTS: A COMPARISON BETWEEN EUS WITH OR WITHOUT FINE NEEDLE ASPIRATION PROCEDURE
S. Amornyotin, S. Konphlay
Bangkoknoi, Thailand

S-283 COMPLICATION RATE AND ALTERATION OF BLOOD PRESSURE AND HEART RATE AFTER UNSEDATED ESOPHAGOGASTRODUODENOSCOPY IN ELDERLY PATIENTS
S. Amornyotin, W. Chatayonnawin, S. Konphlay
Anesthesiology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

S-284 PRE-OXYGENATION WITH A NO-COST TSE “MASK” PREVENTS SEVERE DESATURATION AND REDUCES THE NEED FOR BAG–MASK VENTILATION IN ELDERLY PATIENTS UNDER DEEP PROPOFOL SEDATION DURING UPPER GI ENDOSCOPY
J. Tse, K. Dauphinee, T. Mehta, C. W. Hunter, L. Spina, S. Cohen
Dept of Anesthesia, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ

S-285 PRE-OXYGENATION WITH A NO-COST TSE “MASK” PREVENTS SEVERE DESATURATION AND REDUCES THE NEED FOR ASSISTED BAG–MASK VENTILATION IN PROPOFOL-SEDATED ELDERLY PATIENTS DURING CARDIOVERSION/AICD TESTING
T. Mehta, P. Patel, G. George, S. Cohen, S. Barsoum, J. Tse
Dept of Anesthesia, UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ
S-399 ISOFLURANE EXPOSURE IS ASSOCIATED WITH DECREASED MIGRATION AND ALTERED ACTIVATION MORPHOLOGY IN CULTURED RODENT MICROGLIA

Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, NH

S-400 INCREASING CUMULATIVE EXPOSURE TO VOLATILE ANESTHETIC AGENTS AND NARCOTICS IS ASSOCIATED WITH POORER NEURODEVELOPMENTAL OUTCOMES IN PATIENTS WITH HYPOPLASTIC LEFT HEART SYNDROME

L. K. Diaz1, S. Koh2, M. Gerdes1, X. Luan1, M. Rehman1, J. W. Gaynor2

S-401 CARBON MONOXIDE PREVENTS ANESTHESIA-INDUCED NEUROAPOPTOSIS IN NEWBORN MICE

R. Levy, Y. Cheng
Washington, DC

S-402 COMPARATIVE NEUROTOXIC EFFECTS OF DEXMEDETOMIDINE AND KETAMINE IN PRENATAL MONKEY BRAINS

E. Koo1, T. Oshodi2
1Research and Development - Preclinical, Hospira, Inc., Lake Forest, IL; 2Maccine Pte Ltd, Singapore, Singapore

S-445 THE INCIDENCE OF THE PROPOFOL-INDUCED YAWNING RESPONSE IS HIGHER IN POSTMENOPAUSAL WOMEN

K. Terasako
Shobara Red Cross Hospital, Shobara-City, Japan

S-446 WITHDRAWN

S-447 MONOAMINE OXIDASE INHIBITORS AND THE OCCURRENCE OF INTRAOPERATIVE HEMODYNAMIC EVENTS

I. Van Haelst1,2, T. Egberts3, H. Doodeman1, C. Kalkman4, W. van Klei4
1Clinical Pharmacy, Medical Center Alkmaar, Alkmaar, Netherlands; 2Clinical Pharmacy, University Medical Center Utrecht, Utrecht, Netherlands; 3Pharmacoepidemiology and Pharmacotherapy, Utrecht Institute for Pharmaceutical Sciences, Utrecht, Netherlands; 4Perioperative Care and Emergency Medicine, University Medical Center Utrecht, Utrecht, Netherlands

S-448 INFLUENCES ON GLUCOSE METABOLISM OF PRIOR AMINO ACID ADMINISTRATION AFTER STARTING PREOPERATIVE FASTING AND THE USEFULNESS OF AMINO ACID INTAKE COMBINED WITH CARBOHYDRATE LOAD

M. Tanno, H. Fukushima, S. Ohara, Y. Tanaka
Mito Medica Center National Hospital Organization, Ibaraki-machi Ibaraki-ken, Japan

S-449 OPTIMAL CONTROL OF MUSCLE RELAXATION FOR ELECTROCONVULSIVE THERAPY: A COMPARISON OF SUCCINYLCHOLINE VERSUS ROCURONIUM-INDUCED NEUROMUSCULAR BLOCKADE

H. Mirzakhani1,2, C. A. Welch1,2, E. George1,2, T. O. MacDonald1,3, A. Nozari1,2, M. Eikermann1,3
1Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, MA; 2Psychiatry, Massachusetts General Hospital, Boston, MA; 3Harvard Medical School, Boston, MA
S-473 STELLATE GANGLION BLOCK OFFERS THE FIRST BIOLOGIC TREATMENT FOR POST-TRAUMATIC STRESS DISORDER: PRELIMINARY RESULTS AND POSTULATED MECHANISM OF ACTION
E. G. Lipov1, M. Navaic2, E. T. Stedje-Larsen1, K. Burkhardt1, J. C. Smith1, A. Hickey1
1Advanced Pain Centers, S.C., Hoffman Estates, IL; 2Anesthesiology, Pulmonary and Critical Care Medicine, Department of Veterans Affairs Medical Center, Dayton, OH

S-482 TROUBLE-SHOOT CONTINUOUS PERIPHERAL NERVE CATHETER, HOW MUCH SHOULD WE WITHDRAW?
J. Liu
Department of Anesthesiology and Critical Care, University of Pennsylvania, Philadelphia, PA

S-483 A TIME STUDY OF NEURAXIAL REGIONAL ANESTHESIA TECHNIQUE FROM PATIENT POSITIONING TO NEEDLE INSERTION: IMPLICATIONS FOR CHLORHEXIDINE SKIN ANTISEPSIS
E. Manis1, P. Nyström2
1Wright State University Boonshoft School of Medicine, Dayton, OH; 2Anesthesiology, Pulmonary and Critical Care Medicine, Department of Veterans Affairs Medical Center, Dayton, OH

S-484 A MODEL OF TAIL NERVE BLOCK IN CONSCIOUS RATS
Z. Li1,2, J. Liu2,3
1Department of Pharmacology, West China School of Pharmacy, Sichuan University, Chengdu, China; 2Laboratory of Anaesthesia and Critical Care Medicine, West China Hospital, Sichuan University, Chengdu, China; 3Department of Anesthesiology, West China Hospital, Sichuan University, Chengdu, China

S-485 ASSOCIATION OF BMI WITH POSTOPERATIVE PAIN AND QUALITY OF RECOVERY AFTER TOTAL HIP REPLACEMENT: ROLE OF INSULIN RESISTANCE
J. J. Bae1, R. Motaghedi2, P. M. Shaw1, S. G. Memtsoudis1, S. S. Liu1
1Anesthesiology, Hospital for Special Surgery, New York, NY; 2Pediatrics, NewYork-Presbyterian Hospital/Weill Cornell Medical Center, New York, NY

S-486 SATISFACTION LEVEL WITH TOPICAL VERSUS PERIBULBAR ANESTHESIA EXPERIENCED BY SAME PATIENT FOR PHACOEMULSIFICATION
N. Ahmad, A. Zahoor
Anesthesia, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia
**Abstract Poster Rounds** SATURDAY, MAY 19

### Challenging Case Reports 8
Abstracts in Poster Discussion Round: CC-126 – CC-131
Presenters in Attendance: 4:30 pm – 6:00 pm

**PR02-26**

**Poster Moderator:** S. Wahlander, MD, Columbia University Medical Center, New York City, NY

**CC-126 MEDICALLY CHALLENGING CASE: POSTOPERATIVE MANAGEMENT OF PATIENT WITH CHRONIC PAIN SYNDROME UTILIZING NON-NARCOTIC ADJUVANT THERAPY**

J. Geier, S. Littwin, D. Kramer
Anesthesiology, St. Luke’s Roosevelt Hospital Center - Columbia University School of Physicians and Surgeons, New York, New York, NY

**CC-127 MEDICALLY CHALLENGING CASE: SPINAL ANESTHESIA FOR PROFESSIONAL SINGER UNDERGOING LUMBAR DISKECTOMY**

D. Kramer, S. Chen
Freehold, NJ

**CC-128 A CHALLENGING CASE REPORT: AWAKE CRANIOTOMY WITH CORTICAL EVOKED POTENTIAL MONITORING IN AN OBESE PATIENT UTILIZING DEXMEDETOMIDINE AND REMIFENTANIL**

D. Kramer, F. Chiao
Anesthesiology, St. Lukes Roosevelt Hospital Center-Columbia University School of Physicians and Surgeons, New York, New York, NY

**CC-129 RATE DEPENDENT LEFT BUNDLE BRANCH BLOCK, IS IT ALSO BLOOD PRESSURE DEPENDENT?**

E. Nguyen, A. Elsharydah, M. Hayes
Anesthesiology and Pain Management, UT Southwestern Medical Center, Dallas, TX

**CC-130 FEMORO-FEMORAL CARDIOPULMONARY BYPASS FOR TRACHEOSTOMY IN THE IMPOSSIBLE AIRWAY**

J. H. Gardes¹, R. Smith¹, J. Leff¹, W. Jakobleff¹, T. Straker¹
¹Anesthesiology, Einstein-Montefiore Medical Center, Bronx, NY; ²Otolaryngology, Einstein-Montefiore Medical Center, Bronx, NY; ³Cardiovascular Surgery, Einstein-Montefiore Medical Center, Bronx, NY

**CC-131 AIRWAY MANAGEMENT IN LOW TRACHEAL TUMOUR- AN ANAESTHETIC CHALLENGE**

S. Gombar¹, R. Jayant², U. Dalal¹
¹Anaesthesia, Government Medical College & Hospital Sector 32, Chandigarh, India; ²Anaesthesia, Government Medical College & Hospital Sector 32, Chandigarh, India; ³Surgery, Government Medical College & Hospital Sector 32, Chandigarh, India

### Education and Patient Safety 7
Abstracts in Poster Discussion Round: S-231 – S-236
Presenters in Attendance: 4:30 pm – 6:00 pm

**PR02-27**

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

**S-231 USING HIGH-FIDELITY SIMULATION AND SKILLS TRAINING IN-SITU TO PREPARE ANESTHESIOLOGY RESIDENTS FOR A PEDIATRIC ANESTHESIA ROTATION**

J. Lau, R. Minehart, A. Derevianko, C. Mai
Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, MA

**S-232 PLATFORM FOR OPERATING ROOM TEACHING AND LEARNING (PORTAL): DEVELOPMENT OF A NEW EDUCATIONAL PARADIGM**

J. P. Wanderer, K. H. Baker, S. A. Forman
Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, MA

**S-233 RECOVERING THE LONG-LOST 1937 TROPHY AWARDED TO THE FOUNDERS MCMECHAN BY THE INTERNATIONAL ANESTHESIA RESEARCH SOCIETY**

G. S. Bause
¹Anesthesiology & Perioperative Medicine, Case Western Reserve University, Cleveland, OH; ²Wood Library-Museum of Anesthesiology, Park Ridge, IL

**S-234 TEACHING INTRAVENOUS CATHETER PLACEMENT TO MEDICAL STUDENTS**

E. Thackeray, Z. Stehlikova
Anesthesiology, University of Utah, Salt Lake City, UT

**S-235 DEVELOPING PUBLICATIONS FOR THE MOBILE PHYSICIAN WITH EPUB AND ADOBE INDESIGN©**

R. Montoya, G. Sheplock
Department of Anesthesia, Indiana University School of Medicine, Indianapolis, IN

**S-236 IMPLEMENTATION OF A COMPREHENSIVE BUT SIMPLE METHOD TO MANAGE AND TRACK RESIDENT KNOWLEDGE AND SKILL ACQUISITION DURING PEDIATRIC ANESTHESIA TRAINING: IMPACT ON ITS FIRST GRADUATING CLASS**

D. Chau, E. Bowe, R. Brown, A. DiLorenzo
Anesthesiology, University of Kentucky, Lexington, KY
Abstract Poster Rounds

SATURDAY, MAY 19

Equipment / Monitoring 4
Abstracts in Poster Discussion Round: S-259 – S-263
Presenters in Attendance: 4:30 pm – 6:00 pm

PR02-28

Poster Moderator: I. Hilmi, MB CHB, FRCA, University of Pittsburgh, Wexford, PA

S-259 40 CASES OF TRACHEAL INTUBATION USING BOTH STYLETSCOPE AND GLIDESCOPE (THE TAKUMI METHOD)
K. Dote
Ehime, Japan

S-260 COMMON INDICATIONS OF HYPERBARIC OXYGEN (HBO2) THERAPY IN THE UNITED STATES: A SURVEY OF HBO2 THERAPY FACILITIES
P. Satthasivam, M. Pell, K. Voralu, G. Mychaskiw
Anesthesiology and Perioperative Medicine, Hahnemann University Hospital/Drexel University College of Medicine, Philadelphia, PA

S-261 INFLUENCES OF METHANE IN CONCENTRATION DETERMINATION OF VOLATILE ANESTHETICS IN HUMAN AND GOATS
Z. Li, J. Liu
1Department of Pharmacology, West China School of Pharmacy, Sichuan University, Chengdu, China; 2Lab of Anesthesia and CCM, West China Hospital, Sichuan University, Chengdu, China; 3Department of Anesthesiology, West China Hospital, Sichuan University, Chengdu, China

S-262 GENERAL ANESTHESIA PROLONGS MODIFIED PULSE WAVE TRANSIT TIME
Anesthesiology, Toho University Medical Center Omori Hospital, Tokyo, Japan

S-263 CORRELATION OF BISPECTRAL INDEX SCORES TO MEMORY FORMATION FOLLOWING PREMEDICATION WITH MIDAZOLAM
X. Zheng, M. Feng, P. O’Connor, M. King, P. Lyons, D. Glick
Anesthesia and Critical Care, University of Chicago, Chicago, IL

Pharmacology – Basic Science 4
Abstracts in Poster Discussion Round: S-429 – S-433
Presenters in Attendance: 4:30 pm – 6:00 pm

PR02-29

Poster Moderator: R. McCarthy, MD, Northwestern University, Chicago, IL

S-429 THE EFFECT OF PROPOFOL ON ANANDAMIDE-INDUCED INJURY IN HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS
Y. Mishima, A. Ito, T. Ito, N. Kameyama, K. Ushijima
Anesthesiology, Kurume University, Kurume, Japan

S-430 EVALUATION OF A PROPOFOL-REMICFENTANIL RESPONSE SURFACE MODEL IN PATIENTS UNDERGOING ULTRASONIC ENDOSCOPY
C. LaPierre1, T. Evans1, P. Gambus2, K. B. Johnson1, T. Egan1, D. Westenskow1
1Department of Anesthesiology and Biomedical Engineering, University of Utah, Salt Lake City, UT; 2Anesthesiology Department, Universidad de Barcelona, Barcelona, Spain

S-431 SYSTEMIC ENDOTOXINMA-INDUCED ALTERATIONS OF SUBSTANCE P-LIKE IMMUNOREACTIVITY IN DIFFERENT ORGANS OF MICE
O. Lengl1, E. Pintér2, Z. Helyes2, T. Bagoly2, J. Quinn3, K. Sándor2
1Departments of Anaesthesiology and Intensive Care, University of Pécs, Pécs, Hungary; 2Pharmacology and Pharmacotherapy, University of Pécs, Pécs, Hungary; 3School of Biomedical Sciences, Liverpool University, Liverpool, United Kingdom

S-432 THE DELTA OPIOID RECEPTOR ANTAGONIST NALTRINDOLE IMPROVES SPLANCHNIC PERFUSION IN PIGS DURING CARDIOPULMONARY BYPASS
M. M. Theisen1,2, T. Iden3, T. P. Weber3, H. Nagase4, M. Maas1, K. Kaerlein1
1Department of Anesthesiology and Intensive Care, Münster University Hospital, Münster, Germany; 2Department of Anaesthesia and Intensive Care, Raphaeusklinik Münster, Münster, Germany; 3Department of Anaesthesia and Intensive Care, St. Joseph Hospital Ruhr University Bochum, Bochum, Germany; 4Laboratory of Medical Chemistry, School of Pharmacy, Kitasato University, Tokyo, Japan; 5Department of Anaesthesiology and Intensive Care, Schleswig-Holstein University Hospital, Campus Kiel, Kiel, Germany

S-433 ACID SENSING ION CHANNEL CURRENTS REGULATED BY TETRACAINE
J. Lin1, T. Leng2, Z. Xiong2
1Anesthesiology, SUNY Downstate Medical Center, Brooklyn, NY; 2Neuroscience, Morehouse School of Medicine, Atlanta, GA
### SUNDAY, MAY 20

#### Discussion Times: 8:00 – 9:30 am

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<td>Cardiothoracic &amp; Vascular – Clinical – 3</td>
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<td>Challenging Case Reports – 9</td>
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#### Discussion Times: 10:00 – 11:30 am

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<td>Critical Care Medicine &amp; Trauma – 3</td>
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**Note:** Morning session posters are taken down during this time period to make room for afternoon sessions.

#### Discussion Times: 1:00 – 2:30 pm

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<td>Regional Anesthesia – 4</td>
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#### Discussion Times: 3:00 – 4:30 pm

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<td>Challenging Case Reports – 11</td>
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<td>Equipment / Monitoring – 6</td>
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<td>Pain – Basic Science – 1</td>
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<td>Pediatric Anesthesia – Neonatal Safety &amp; Anesthetics – 2</td>
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<td>Pharmacology – Clinical – 4</td>
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**Cardiothoracic and Vascular – Basic Science 2**

Abstract Poster Discussion Round: S-30 – S-35

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

**PR03-01**

**Poster Moderator:** P. Picton, MB ChB, University of Michigan
Health System, Ann Arbor, MI

**S-30**

**EXERCISE AND A BREAKER OF ADVANCED GLYCATION END PRODUCTS ATTENUATE AGE RELATED VASCULAR STIFFNESS AND DECREASE TISSUE TRANSGLUTAMINASE ACTIVITY AND CROSSLINKING**

J. Steppan¹, G. Sikka¹, L. Santhanam¹, D. Nyhan¹, D. E. Berkowitz¹,²

¹Anesthesiology & Critical Care Medicine, Johns Hopkins University, Baltimore, MD; ²Biomedical Engineering, Johns Hopkins University, Baltimore, MD

**Abstract:**

Exercise and a breaker of advanced glycation end products attenuate age-related vascular stiffness and decrease tissue transglutaminase activity and crosslinking.

**Contributors:**

- J. Steppan
- G. Sikka
- L. Santhanam
- D. Nyhan
- D. E. Berkowitz

**Affiliations:**

1. Anesthesiology & Critical Care Medicine, Johns Hopkins University, Baltimore, MD
2. Biomedical Engineering, Johns Hopkins University, Baltimore, MD

**S-31**

**SYSTEMIC PERFUSION PRESSURE AND THE CLOSING PRESSURE OF THE MICROCIRCULATION:**

**THE IMPORTANCE OF 30MM HG**

S. F. Woodford

1Anesthesia, Brisbane Waters Private Hospital, Woy Woy, NSW, Australia; 2Australian School of Advanced Medicine, Macquarie University, Sydney, NSW, Australia

**Abstract:**

Systemic perfusion pressure and the closing pressure of the microcirculation: the importance of 30mm Hg.

**Contributors:**

S. F. Woodford

**Affiliations:**

1. Anesthesia, Brisbane Waters Private Hospital, Woy Woy, NSW, Australia
2. Australian School of Advanced Medicine, Macquarie University, Sydney, NSW, Australia

**S-32**

**GYTON AND THE SYSTEMIC VASCULAR RESISTANCE:**

**THE PROBLEM OF APPLYING DC CONCEPTS TO A PULSATILE SYSTEM**

S. F. Woodford

1Anesthesia, Brisbane Waters Private Hospital, Woy Woy, NSW, Australia; 2Australian School of Advanced Medicine, Macquarie University, Sydney, NSW, Australia

**Abstract:**

Guyton and the systemic vascular resistance: the problem of applying DC concepts to a pulsatile system.

**Contributors:**

S. F. Woodford

**Affiliations:**

1. Anesthesia, Brisbane Waters Private Hospital, Woy Woy, NSW, Australia
2. Australian School of Advanced Medicine, Macquarie University, Sydney, NSW, Australia

**S-33**

**SPINAL ANESTHESIA AND CENTRAL HEMODYNAMICS:**

**RE-ANALYSIS OF PILOT STUDY DATA**

R. Eng¹, G. Dobson¹,²

¹Anesthesia, University of Calgary, Calgary, AB, Canada; ²Surgery, University of Calgary, Calgary, AB, Canada

**Abstract:**

Spinal anesthesia and central hemodynamics: re-analysis of pilot study data.

**Contributors:**

R. Eng

**Affiliations:**

1. Anesthesia, University of Calgary, Calgary, AB, Canada
2. Surgery, University of Calgary, Calgary, AB, Canada

**S-34**

**NEUROTRANSMITTER NPY3-36 CAN INDUCE ANGIogensis IN A HIGH CHOLESTEROL PIG MODEL OF CHRONIC MYOCARDIAL ISCHEMIA**

A. Wang¹, F. Mahmood¹,², K. Khubz¹,², P. Hess¹,², F. W. Sellke¹,², R. Matyal¹,²

¹Anesthesia, Beth Israel Deaconess Medical Center, Boston, MA; ²Harvard Medical School, Boston, MA

**Abstract:**

Neurotransmitter NPY3-36 can induce angiogenesis in a high cholesterol pig model of chronic myocardial ischemia.

**Contributors:**

A. Wang

**Affiliations:**

1. Anesthesia, Beth Israel Deaconess Medical Center, Boston, MA
2. Harvard Medical School, Boston, MA

**S-35**

**INHIBITION OF DESFLURANE-INDUCED POSTCONDITIONING IN A MURINE MODEL OF LONG TERM BETA-ADRENERGIC RECEPTOR BLOCKADE**

T. Tischer-Zeitz¹, J. Stumpner¹, C. Lotz¹, M. Lange¹,², N. Roever¹, T. Smul¹

¹Department of Anaesthesia and Critical Care, University of Würzburg, Würzburg, Germany; ²Department of Anaesthesia and Critical Care, Mathias-Spital, Rheine, Germany

**Abstract:**

Inhibition of desflurane-induced postconditioning in a murine model of long term beta-adrenergic receptor blockade.

**Contributors:**

T. Tischer-Zeitz

**Affiliations:**

1. Department of Anaesthesia and Critical Care, University of Würzburg, Würzburg, Germany
2. Department of Anaesthesia and Critical Care, Mathias-Spital, Rheine, Germany
Abstract Poster Rounds  
SUNDAY, MAY 20

S-64  INVESTIGATION OF INCIDENCE, FACTORS AND OUTCOME MEASURES ASSOCIATED WITH INCREASED WEIGHT GAIN FOLLOWING ADULT CARDIAC SURGERY
A. D. Sharma1, A. Al-Achi2, H. Trettin1, J. Seccombe1
1Cardiac Anesthesia/Surgery, St Vincent’s Hospital, Green Bay, WI; 2Department of Pharmaceutical Sciences, Campbell University, Buies Creek, NC

S-58  INTRAVASCULAR EXPANSION WITH NITROGLYCERIN ENHANCES TISSUE OXYGENATION
S. J. Voskanian, A. Yen, N. Samimi, M. Mogos, P. Roffey, D. Thangathurai
Anesthesiology, USC Keck School of Medicine, Los Angeles, CA

S-59  CORRELATION OF EARLY HEMODYNAMIC MEASURES IN CARDIAC SURGERY TO POSTOPERATIVE OXYGEN UTILIZATION CAPACITY
S. Pothula1, R. J. LaFarò, D. Maerz1, L. Montes1, S. Oleszkiewicz1, A. Yusupov1, M. A. Inchiosa1
1New York Medical College, Valhalla, NY; 2New York College of Osteopathic Medicine, Old Westbury, NY

S-60  PRESSURE AND FLOW REGULATION IN THE AGING HUMAN CIRCULATION: FUNCTIONAL ANALYSIS OF 370 ADULT PATIENTS PRESENTING FOR ELECTIVE MAJOR SURGERY
S. F. Woodford
1Anesthesia, Brisbane Waters Private Hospital, Woy Woy, NSW, Australia; 2Australian School of Advanced Medicine, Macquarie University, Sydney, NSW, Australia

S-61  THE EFFECT OF PREOPERATIVE ANTIHYPERTENSIVE THERAPY ON INTRAOPERATIVE SYSTOLIC BLOOD PRESSURE VARIABILITY
J. Buehler, R. M. Craft, R. C. Carroll, C. G. Snider, Z. Dickson
Anesthesiology, University of Tennessee Medical Center, Knoxville, TN

S-62  RISK OF ELECTIVE MAJOR NON-CARDIAC SURGERY AFTER CORONARY STENT INSERTION
D. N. Wijeysundera1,2, H. C. Wijeysundera3, M. Wasowicz2, S. Beattie5, J. Velianou4, D. Ko3,5
1Li Ka Shing Knowledge Institute, St. Michael’s Hospital, Toronto, ON, Canada; 2Anesthesia and Pain Management, Toronto General Hospital, Toronto, ON, Canada; 3Cardiology, Sunnybrook Health Sciences Centre, Toronto, ON, Canada; 4Cardiology, McMaster University, Hamilton, ON, Canada; 5Institute for Clinical Evaluative Sciences, Toronto, ON, Canada

S-63  PERIOPERATIVE REMIFENTANIL ADMINISTRATION INHIBITS ARRHYTHMIA ATTACK INDUCED BY NON-REENTRY MECHANISMS IN PEDIATRIC PATIENTS UNDERGOING RADIOFREQUENCY CATHETER ABLATION
K. Fujii1, H. Iranami2, K. Nishikawa1
1Anesthesiology, Wakayama Medical University, Wakayama, Japan; 2Anesthesiology, Japanese Red Cross Society Wakayama Medical Center, Wakayama, Japan
Abstract Poster Rounds

SUNDAY, MAY 20

Education and Patient Safety 3
Abstracts in Poster Discussion Round: S-204 – S-210
Presenters in Attendance: 8:00 am – 9:30 am

Poster Moderator: M. London, MD, University of California San Francisco, San Francisco, CA

S-204 A FOUR WEEK OR MANAGEMENT ROTATION UTILIZING A CRNA-BASED EVALUATION TOOL
M. Tsai1, 2, Y. Patel3, C. Ye1, J. Kelbert1, J. Easdowne4, A. Macario5
1Anesthesiology, University of Vermont College of Medicine, Burlington, VT; 2Anesthesiology, Fletcher Allen Health Care, Burlington, VT; 3Anesthesiology, Vanderbilt University, Nashville, TN; 4Anesthesiology, Stanford University, Stanford, CA

S-205 TEACHING FACULTY TO PROVIDE DIFFICULT FEEDBACK—A FEASIBILITY STUDY
J. D. Mitchell1, M. Brzezinski2, E. J. Holak3, L. J. Fisher1, Q. Cui1, S. B. Jones1
1Anesthesia, Critical Care, and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, MA; 2Anesthesia and Perioperative Care, University of California San Francisco, San Francisco, CA; 3Anesthesiology, Medical College of Wisconsin, Wisconsin, WI

S-206 EVALUATION OF UPPER AIRWAY COLLAPSIBILITY IN PATIENTS WITH OSAHS
N. Lin1, Y. Li2, T. Li3, J. Ye3, B. Zhang1
1Anesthesiology, Beijing Tongren Hospital, Capital Medical University, Beijing, China; 2Key Laboratory of Otalaryngology Head and Neck Surgery, Beijing Tongren Hospital, Capital Medical University, Beijing, China

S-207 PREVENTIVE INTERVENTIONS FOR RISING INTRAOCULAR PRESSURE: DEVELOPMENT OF AN OBSERVATION SCALE
B. L. Molloy, C. B. Watson
Fairfield, CT

S-208 EVALUATION OF A TEXT PAGING DEVICE FOR USE IN A CRITICAL MESSAGING ENVIRONMENT
R. H. Epstein1, F. Dexter2
1Anesthesiology, Jefferson Medical College, Philadelphia, PA; 2Anesthesia, University of Iowa, Iowa City, IA

S-209 INFORMATION SEARCH PATTERNS AMONG PRACTICING ANESTHESIOLOGISTS: SURVEY RESULTS
V. Herasevich, T. Weingarten, T. Long, B. Pickering
Department of Anesthesiology, Mayo Clinic, Rochester, MN

S-210 AUDIT INTO EARLY POSTOPERATIVE RENAL FUNCTION FOLLOWING HIP OR KNEE ARTHROPLASTY WITH TWO ANTIBIOTIC REGIMES
A. Morrison, T. Turr
Anaesthesia, Wirral University Teaching Hospitals, Liverpool, United Kingdom

Abstracts in Poster Discussion Round: CC-132 – CC-137
Presenters in Attendance: 8:00 am – 9:30 am

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

CC-132 SPINAL CORD STIMULATOR FOR TREATMENT OF SPINABIFIDA, TETHERED CORD AND POST LUMBAR LAMINECTOMY SYNDROME
S. Shah, K. Delara, A. Khan, W. Grubb, P. Patel, C. W. Hunter
New Brunswick, NJ

CC-133 RESTRICTIVE AIRWAY COLLAPSE AND WORSENING CARDIAC STATUS FOLLOWING UNEVENTFUL VENTRAL DIASTASIS AND HERNIA REPAIR
K. Y. Son1, J. Andersen1, D. Horak1, M. W. Lew1
1Pulmonary Critical Care, City of Hope, Duarte, CA; 2Plastic Surgery, City of Hope, Duarte, CA; 3Anesthesiology, City of Hope, Duarte, CA

CC-134 USE OF HIGH FREQUENCY OSCILLATORY VENTILATION (HFOV) IN A MORBIDLY OBSESE PATIENT UNDERGOING CARDIAC SURGERY
A. N. Springer1, R. S. Tripathi2, E. J. Stein2, B. R. Kelly2, J. A. Crestanello2, T. J. Papadimos1
1Anesthesiology, The Ohio State University Medical Center, Columbus, OH; 2Surgery, The Ohio State University Medical Center, Columbus, OH

CC-135 SUBCUTANEOUS EMPHYSEMA AFTER ERCP: TRAUMATIC INTUBATION OR GI TRACT PERFORATION?
D. Chang, D. Dimaculangan
Anesthesiology, SUNY Downstate, Brooklyn, NY

CC-136 PREGNANCY AND PRIMARY PULMONARY HYPERTENSION A GOOD OUTCOME WITH NASAL NITRIC OXIDE DURING CESAREAN SECTION
M. Moallempour, N. Zachariah, G. Rodriguez, J. Rios
Department of Anesthesiology, Boston University Medical Center, Boston, MA

CC-137 CALCIPHYLAXIS WITH BREAST NECROSIS FOLLOWING CORONARY ARTERY BYPASS: A PLEA FOR GREATER RECOGNITION
R. S. Tripathi2, M. S. Firstenberg2, E. E. Abel1, S. B. Peters4, N. A. Grose2, T. J. Papadimos1
1Anesthesiology, The Ohio State University Medical Center, Columbus, OH; 2Surgery, The Ohio State University Medical Center, Columbus, OH; 3Pharmacy, The Ohio State University Medical Center, Columbus, OH; 4Pathology, The Ohio State University Medical Center, Columbus, OH
Abstract Poster Rounds
SUNDAY, MAY 20

Pain - Clinic - Chronic 1
Abstracts in Poster Discussion Round: S-372 – S-376
Presenters in Attendance: 8:00 am – 9:30 am

Poster Moderator: K. Nishikawa, MD, Gumma University School of Medicine, Gumma, Japan

S-372 SPINAL CORD STIMULATION FOR INTRACTABLE METASTATIC SPINAL TUMOR RELATED PAIN
S. Hattori, T. Igarashi, J. Takarada, H. Sano, M. Yokota
Anesthesiology and Pain Service, The Cancer Institute Hospital of JFCR, Tokyo, Japan

S-373 CHANGES IN SALIVARY AMYLASE ACTIVITY BEFORE AND AFTER TRANSCUTANEOUS XENON LIGHT IRRADIATION AROUND THE STELLATE GANGLION
K. Mamiya, N. Abe, Y. Onodera, A. Sugawara, M. Kanao, H. Iwasaki
Anesthesiology and Critical Care Medicine, Asahikawa Medical University, Asahikawa, Japan

S-374 PERSISTENT POSTSURGICAL PAIN AFTER TOTAL KNEE REPLACEMENT: PREOPERATIVE HEALTH STATUS AS A RISK FACTOR?
A. Buvanendran, M. Moric, J. Kroin, K. J. Tuman
Rush Medical College, Chicago, IL

S-375 PAIN, FUNCTIONAL AND MOOD STATUS IN PATIENTS WITH NEUROGENIC CLAUDICATION BEFORE AND AFTER MINIMALLY INVASIVE LUMBAR DECOMPRESSION
B. Durkin¹, J. Romeiser⁴, L. Peyster¹, A. W. Shroyer¹, R. Davis¹, H. Benveniste¹,², ³
¹Anesthesiology, Stony Brook University, Stony Brook, NY; ²Surgery, Stony Brook University, Stony Brook, NY; ³Neurosurgery, Stony Brook University, Stony Brook, NY; ⁴Radiology, Stony Brook University, Stony Brook, NY

S-376 MANAGEMENT OF LUMBAR DISCOSCENIC PAIN IN AMBULATORY ENVIRONMENT
A. Abadir, H. Bhatt, W. Jones, A. Kryuchkova, J. Michaels, R. Michael
Anesthesia & Pain Management, Queens Surgi-Center, Queens, NY

Neuroanesthesia 2
Abstracts in Poster Discussion Round: S-315 – S-319, S-321
Presenters in Attendance: 8:00 am – 9:30 am

Poster Moderator: S. Worah, MD, SUNY Downstate Medical Center, Brooklyn, NY

S-315 A COMPARATIVE STUDY BETWEEN DEXMEDETOMIDINE AND CLONIDINE ON HEMODYNAMIC RESPONSES DURING INTUBATION AND EXTUBATION FOR INTRACRANIAL SURGERY
A. K. Tiwari, G. S. Tomar, S. Ganguly
Dept. of Anaesthesiology & Critical Care, St. Stephen’s Hospital, New Delhi, India

S-316 ANESTHESIA FOR DEEP BRAIN STIMULATION
J. N. Monteiro¹, M. Sankhe²
¹Anesthesiology, PD Hinduja National Hospital & Medical Research Centre, Mumbai, India; ²Neurosurgery, PD Hinduja National Hospital & Medical Research Centre, Mumbai, India

S-317 INCIDENCE AND RISK FACTORS FOR ACUTE KIDNEY INJURY AFTER MULTILEVEL SPINE SURGERY
B. Naik, D. Colquhoun, W. McKinney, A. Smith, M. Durieux, J. Raphael
Charlottesville, VA

S-318 WITHDRAWN

S-319 POST-SPLENECTOMY SHORT-TERM MEMORY DYSFUNCTION IN MICE IS ATTENUATED BY DELAYED TREATMENT WITH SLK, A NOVEL ANTI–PLATELET ANTIBODY
D. Shilo¹, Y. Li², A. Y. Bekker¹, T. M. Wisniewski², M. M. Haile²
¹Anesthesiology, NYU Langone Medical Center, New York, NY; ²Neurology, NYU Langone Medical Center, New York, NY

S-321 MICRORNA-181 REGULATES BOTH CHAPERONE GRP78 AND BCL-2 FAMILY PROTEINS CHANGING OUTCOME FROM ISCHEMIC BRAIN INJURY IN VITRO AND IN VIVO IN MICE
R. Giffard¹, Y. Lu², L. Xu³, L. A. Voloboueva¹, Y. Ouyang¹
¹Department of Anesthesia, Stanford University School of Medicine, Stanford, CA; ²Department of Anesthesia, Beijing Tiantan Hospital, Capital Medical University, Beijing, China
Abstract Poster Rounds
Pharmacology - Basic Science 3
Abstracts in Poster Discussion Round: S-423 – S-427
Presenters in Attendance: 8:00 am – 9:30 am

**PR03-07**

**Poster Moderator:** T. Krejcie, MD, Northwestern Feinberg School of Medicine, Chicago, IL

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**S-423** SEVOFLURANE INHIBITS PHOSPHODIESTWRASE ACTIVITY

S. Sonoda
Anesthesiology, Juntendo University, Tokyo, Japan

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**S-424** SELECTIVE INHIBITION OF PROPOFOL IN CORTICAL SINGLE NEURONS IN THE MACAQUE BRAIN

Y. Ishizawa¹, A. Uchida¹, J. T. Gale², E. N. Brown¹, E. N. Eskandar²
¹Anesthesia, Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, MA; ²Neurosurgery, Massachusetts General Hospital, Boston, MA

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**S-425** VOLATILE ANESTHETIC ISOFLURANE INHIBITS INTEGRIN LEUKOCYTE FUNCTION-ASSOCIATED ANTIGEN-1 (LFA-1)

K. Yuki¹, M. Shimaoka¹, R. Eckenhoff², T. Springer³
¹Department of Anesthesiology, Perioperative and Pain Medicine, Children's Hospital Boston, Boston, MA; ²Department of Anesthesiology, University of Pennsylvania, Philadelphia, PA

---

**S-426** PHARMACOLOGICAL MECHANISMS INVOLVED IN THE ANTINOCICEPTIVE EFFECTS OF INTRAVENOUS DEXMEDETOMIDINE IN MICE

M. Lessa¹, R. S. Rangel², B. Marinho³, R. Soares de Moura³
¹Laboratory of Cardiovascular Investigation, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil; ²Pharmacology, State University of Rio de Janeiro, Rio de Janeiro, Brazil; ³Pharmacology, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

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**S-427** MODULATION OF β SUBUNIT-CONTAINING GABA A RECEPTORS BY ETOMIDATE DEPENDS ON SUBUNIT ARRANGEMENT

S. A. Forman, H. Feng,
Anesthesia Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, MA
Abstract Poster Rounds SUNDAY, MAY 20
Cardiothoracic and Vascular - Basic Science 3
Abstracts in Poster Discussion Round: S-36 – S-41
Presenters in Attendance: 10:00 am – 11:30 am

PRO3-08

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

S-36 THE KAPPA OPIOID RECEPTOR ANTAGONIST NORBINALTHORPHIMINE IN PIGS UNDERGOING CARDIOPULMONARY BYPASS (CPB)
M. M. Theisen1,2, J. Blumenstiel1, T. P. Weber4, H. Nagase4, J. Stymmann4, F. Ploner3
1Department of Anesthesiology and Intensive Care, Münster University Hospital, Münster, Germany; 2Department of Anaesthesia and Intensive Care, Raphaelsklinik Münster, Muenster, Germany; 3Department of Anesthesiology and Critical Care Medicine, Vipiteno Hospital, Vipiteno, Italy; 4Laboratory of Medical Chemistry, School of Pharmacy, Kitasato University, Tokyo, Japan; 5Department of Cardiology and Angiology, Münster University Hospital, Münster, Germany; 6Department of Anesthesia and Intensive Care, St. Joseph Hospital Ruhr University Bochum, Bochum, Germany

S-37 OPIOID RECEPTOR ANTAGONISTS AFFECT THE SUCCESS OF DEFIBRILLATION OF VENTRICULAR FIBRILLATION (VF) IN PIGS UNDERGOING CARDIOPULMONARY BYPASS (CPB)
M. M. Theisen1,2, J. Stymmann4, H. Nagase4, T. P. Weber42, T. Iden1, K. Kaerlein1
1Department of Anesthesiology and Intensive Care, Münster University Hospital, Münster, Germany; 2Department of Anaesthesia and Intensive Care, Raphaelsklinik Münster, Muenster, Germany; 3Department of Cardiology and Angiology, Münster University Hospital Münster, Germany; 4Laboratory of Medical Chemistry, School of Pharmacy, Kitasato University, Tokyo, Japan; 5Department of Cardiology and Angiology, Münster University Hospital, Münster, Germany; 6Department of Anaesthesia and Intensive Care, St. Joseph Hospital Ruhr University Bochum, Bochum, Germany

S-38 DIFFERENTIAL CARDIOPROTECTION BY CHROMOSOMAL SUBSTITUTION IN A CONSOMIC RAT MODEL: ROLE OF NITRIC OXIDE IN ANESTHETIC PRECONDITIONING
M. L. Riess1,2, D. Nabor1, Q. Cheng1, J. R. Kersten1,3, D. F. Stowe1,2, J. Lazar4
1Anesthesiology, Medical College of Wisconsin, Milwaukee, WI; 2Physiology, Medical College of Wisconsin, Milwaukee, WI; 3Pharmacology & Toxicology, Medical College of Wisconsin, Milwaukee, WI; 4Dermatology, Medical College of Wisconsin, Milwaukee, WI; 5Anesthesiology, VA Medical Center, Milwaukee, WI

S-39 ENDOGENOUS OPIOIDS IN WOUND-SITE NEUTROPHILS OF STERNOTOMY PATIENTS
M. Abaz1, E. Elsayed-Awad2, T. Theofilos1, R. S. Tripathi1, C. B. Sai-Sudhakar3, S. Roy1
1Anesthesiology, The Ohio State University Medical Center, Columbus, OH; 2Surgery, The Ohio State University Medical Center, Columbus, OH

S-40 STATINS AND IL-6-INHIBITION PREVENT ATHEROSCLEROTIC LESION GROWTH AND DESTABILIZATION IN A MODEL OF PERIOPERATIVE STRESS IN ATHEROSCLEROSIS-PRONE MICE
G. Theilmeier1, H. Janssen1, C. Wagner1, P. Demmer1, U. Tietge2, J. Larmann3
1Anesthesiology, MHH, Hannover, Germany; 2Pediatrics, University Hospital Groningen, Groningen, Netherlands

S-41 IN VIVO FLUORESCENCE-MEDIATED TOMOGRAPHY IMAGING DEMONSTRATES ATOVASTATIN MEDIATED REDUCTION OF LESION MACROPHAGES IN APOE-DEFICIENT MICE
J. Larmann1, F. Frenzel1,2, P. Demmer1, U. J. Tietge1, C. Bremer2, G. Theilmeier1
1Department of Anesthesiology and Intensive Care Medicine, Hannover Medical School, Hannover, Germany; 2Department of Anesthesiology and Intensive Care Medicine, University Hospital Muenster, Muenster, Germany; 3Institute for Anatomy, University of Muenster, Muenster, Germany; 4Department of Pediatrics, Center for Liver, Digestive, and Metabolic Diseases, University Medical Center Groningen, Groningen, Netherlands; 5Department of Clinical Radiology, University Hospital Muenster, Muenster, Germany
**SUNDAY, MAY 20**  
Abstract Poster Rounds

**PRO3-09**

**Poster Moderator:** I. Hilmi, MB CHB, FRCA, University of Pittsburgh, Wexford, PA

**S-65 WITHDRAWN**

**S-66 DETERMINATION OF VENTILATORY MINUTE VOLUMES FOR NORMOCAPNIC VENTILATION IN POST OPERATIVE CARDIAC SURGERY PATIENTS**

G. D. Puri, A. A. Chaudhari, B. Kumar, A. Bhulla
Chandigarh, India

**S-67 HAPTOGLOBIN POLYMORPHISM AND PERIOPERATIVE MYOCARDIAL INJURY FOLLOWING CORONARY ARTERY BYPASS SURGERY**

J. Raphael¹, A. Fox², C. D. Collard³, S. Sherman⁴, J. D. Muehlschlegel⁵, S. Body⁶
¹Anesthesiology, University of Virginia, Charlottesville, VA; ²Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital, Boston, MA; ³Anesthesiology, Texas Heart Institute, Houston, TX

**S-68 OXYHEMODYNAMIC EFFECTS OF NORMAL VERSUS HIGH ARTERIAL BLOOD FLOW DURING CARDIOPULMONARY BYPASS CORONARY ARTERY BYPASS GRAFTING SURGERY**

M. Lessa⁷, M. A. Salgado⁸, A. Siciliano⁹
⁷Surgical Division, National Institute of Cardiology, Rio de Janeiro, Brazil; ⁸Laboratory of Cardiovascular Investigation, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil

**S-69 VALUE OF COMBINED PRE- AND POSTOPERATIVE NT–PROBNP MEASUREMENT TO PREDICT DEATH AND MAJOR CARDIOVASCULAR EVENTS AT 1 YEAR AFTER NONCARDIAC SURGERY**

G. A. Lurati Buse¹, E. Seeberger¹, C. Werner¹, M. Filipovic², D. Bolliger¹, M. Seeberger¹
¹Anesthesiology, University Hospital Basel, Basel, Switzerland; ²Anesthesiology, Kantonsspital St. Gallen, St. Gallen, Switzerland

**S-70 CARDIAC EVALUATION AND OUTCOMES IN PANCREAS TRANSPLANTATION**

D. Farar¹, R. Mangus¹, S. Kinsella², C. Crea³, J. A. Fridell³
¹Surgery, Indiana University School of Medicine, Indianapolis, IN; ²Anesthesia, Indiana University School of Medicine, Indianapolis, IN

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**PRO3-10**

**Poster Moderator:** R. Craft, MD, University of Tennessee College of Medicine, Knoxville, TN

**S-65 WITHDRAWN**

**S-66 DETERMINATION OF VENTILATORY MINUTE VOLUMES FOR NORMOCAPNIC VENTILATION IN POST OPERATIVE CARDIAC SURGERY PATIENTS**

G. D. Puri, A. A. Chaudhari, B. Kumar, A. Bhulla
Chandigarh, India

**S-67 HAPTOGLOBIN POLYMORPHISM AND PERIOPERATIVE MYOCARDIAL INJURY FOLLOWING CORONARY ARTERY BYPASS SURGERY**

J. Raphael¹, A. Fox², C. D. Collard³, S. Sherman⁴, J. D. Muehlschlegel⁵, S. Body⁶
¹Anesthesiology, University of Virginia, Charlottesville, VA; ²Anesthesiology, Perioperative and Pain Medicine, Brigham and Women’s Hospital, Boston, MA; ³Anesthesiology, Texas Heart Institute, Houston, TX

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⁷Surgical Division, National Institute of Cardiology, Rio de Janeiro, Brazil; ⁸Laboratory of Cardiovascular Investigation, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil

**S-69 VALUE OF COMBINED PRE- AND POSTOPERATIVE NT–PROBNP MEASUREMENT TO PREDICT DEATH AND MAJOR CARDIOVASCULAR EVENTS AT 1 YEAR AFTER NONCARDIAC SURGERY**

G. A. Lurati Buse¹, E. Seeberger¹, C. Werner¹, M. Filipovic², D. Bolliger¹, M. Seeberger¹
¹Anesthesiology, University Hospital Basel, Basel, Switzerland; ²Anesthesiology, Kantonsspital St. Gallen, St. Gallen, Switzerland

**S-70 CARDIAC EVALUATION AND OUTCOMES IN PANCREAS TRANSPLANTATION**

D. Farar¹, R. Mangus¹, S. Kinsella², C. Crea³, J. A. Fridell³
¹Surgery, Indiana University School of Medicine, Indianapolis, IN; ²Anesthesia, Indiana University School of Medicine, Indianapolis, IN
Abstract Poster Rounds | SUNDAY, MAY 20

Pharmacology – Basic Science 5
Abstracts in Poster Discussion Round: S-434 – S-439
Presenters in Attendance: 10:00 am – 11:30 am

Poster Moderator: S. Wahlander, MD, Columbia University Medical Center, New York, NY

S-434 THE INHIBITORY EFFECTS OF KETAMINE ON SUBSTANCE P RECEPTOR IN U373 MG HUMAN ASTROCYTOMA CELLS
K. Yamaguchi
Tokyo, Japan

S-435 THE KAPPA OPIOID RECEPTOR ANTAGONIST NOR-BINALTORPHIMINE INCREASES SPLANCHNIC PERFUSION WHILE DECREASING VASOPRESSOR REQUIREMENTS BOTH DURING AND POST EXTRACORPOREAL CIRCULATION IN SWINE
M. M. Theisen1,2, J. Blumenstiel1, J. Stypmann1, T. P. Weber1, M. Fohrer1, F. Ploner1
1Department of Anesthesiology and Intensive Care, Münster University Hospital, Muenster, Germany; 2Department of Anaesthesia and Intensive Care, Raphaelsklinik Münster, Muenster, Germany; 3Department of Cardiology and Angiology, Münster University Hospital, Münster, Germany; 4Department of Anaesthesia and Intensive Care, St. Joseph Hospital Ruhr University Bochum, Bochum, Germany; 5Department of Anaesthesiology and Critical Care Medicine, Vipiteno Hospital, Vipiteno, Italy; 6Department of Laboratory Medicine, Münster University Hospital, Münster, Germany

S-436 MEMORY IMPAIRMENT AND REDUCED SYNAPTIC PLASTICITY AFTER IsoFLURANE ANESTHESIA IS MEDIATED BY GABA(A) RECEPTORS IN MICE
B. A. Orser1,2, A. Zurek1, E. M. Bridgwater1
1Anesthesia, Sunnybrook Health Sciences, Toronto, ON, Canada; 2Physiology, University of Toronto, Toronto, ON, Canada

S-437 TWO HOURS OF ANESTHESIA DOES NOT IMPAIR SUSTAINED ATTENTION IN RATS TESTED 24 HOURS LATER
K. Murphy1, T. Veulhey2, A. Bates1, J. McGaughy1, M. Baxter1
1Friedman Brain Institute, Mount Sinai School of Medicine, New York, NY; 2Department of Psychology, University of New Hampshire, Durham, NH

S-438 ALLYL TFD-MEPHOBARBITAL : POTENT ENANTIOSELECTIVE PHOTOREACTIVE BARBITURATE GENERAL ANESTHETICS THAT INTERACT WITH HUMAN GABA(A) RECEPTORS
X. Zhang1,2, P. Y. Savechenkov3, D. Stewart1, R. Ge1, K. S. Bruzzi2, K. W. Miller1,3
1Department of Anesthesia, Critical Care & Pain Medicine, Massachusetts General Hospital, Boston, MA; 2College of Pharmacy, University of Illinois at Chicago, Chicago, IL; 3Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, MA

S-439 ACTIVATION OF THE CB2 RECEPTOR SYSTEM ALLEVIATES AMYLOID-INDUCED MEMORY DEFICIENCY
J. Wu, B. Bie, H. Yang, J. Xu, D. Brown, M. Naguib
Cleveland, OH
Abstracts in Poster Discussion Round: S-456 – S-460
Presenters in Attendance: 10:00 am – 11:30 am

**PR03-13**

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

**S-456** DEXMEDETOMIDINE INFUSION TIME CONSIDERATIONS FOR AWAKE FIBEROPTIC INTUBATION

X. Zheng, J. Swaniker, D. Glick
Anesthesia and Critical Care, University of Chicago, Chicago, IL

**S-457** THE EFFECT OF DIFFUSION OF 4% LIDOCAINE THROUGH THE MEDTRONIC EMG ENDOTRACHEAL TUBE CUFF ON NIM-RESPONSE

O. Asimolowo, A. Apostol, S. Jalou, K. Sundaram, M. Dela Pena
Brooklyn, NY

**S-458** USEFULNESS OF ESTIMATED PLASMA CONCENTRATION (CP) FOR DECIDING THE TIMING OF REPEATED BOLUS ROCURONIUM ADMINISTRATION UNDER DESFLURANE ANESTHESIA

K. Takahoko¹, H. Iwasaki², S. Otomo¹, T. Sasakawa¹, H. Iwasaki¹
¹Anesthesiology, Asahikawa medical college, Asahikawa, Japan; ²Anesthesiology, Shriners Burns Institute Shriners Hospital for Children Massachusetts General Hospital Harvard Medical School, Cambridge, MA

**S-459** DOES REMIFENTANIL AFFECT THE INCIDENCE OF COLON CANCER RECURRENCE?

H. Kurosaki, K. Fujii, K. Nishikawa
Anesthesiology, Wakayama Medical University, Wakayama, Japan

**S-460** IMPACT OF SEVOFLURANE VS. PROPOFOL ON INCIDENT DELIRIUM AFTER NONCARDIAC SURGERY- A RANDOMIZED CONTROLLED TRIAL

G. A. Lurati Buse¹, E. Seeberger¹, M. Filipovic², D. Bolliger¹, M. Seeberger¹
¹Anesthesiology, University Hospital Basel, Basel, Switzerland; ²Anesthesiology, Kantonsspital St. Gallen, St. Gallen, Switzerland

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Abstracts in Poster Discussion Round: S-10 – S-14
Presenters in Attendance: 1:00 pm – 2:30 pm

**PR03-14**

**Poster Moderator:** R. Hannallah, MD, The George Washington University Medical Center, Washington, DC

**S-10** AIRWAY AND ANESTHETIC MANAGEMENT IN PATIENTS UNDERGOING THYROID SURGERY

J. May, S. Davis, A. Campos, N. Bhatti, L. Hoke, Y. Bryan
Anesthesiology, Wake Forest School of Medicine, Winston-Salem, NC

**S-11** WITHDRAWN

**S-12** GOOD DREAMS DURING GENERAL ANESTHESIA ARE ASSOCIATED WITH THE INCIDENCE OF PONV

A. Yoshida, K. Fujii, K. Nishikawa
Anesthesiology, Wakayama Medical University, Wakayama, Japan

**S-13** EFFICIENCY OF FREE-STANDING AMBULATORY SURGERY CENTERS AND HOSPITAL-BASED AMBULATORY SURGERY DEPARTMENTS IN THE USA: A PROPENSITY ANALYSIS

E. B. Rosero, G. P. Joshi
Anesthesiology & Pain Management, UT Southwestern Medical Center, Dallas, TX

**S-14** THE MINIMUM EFFECTIVE DOSE OF DEXAMETHASONE IN COMBINATION WITH MIDAZOLAM IN PATIENTS UNDERGOING LAPROSCOPIC CHOLECYSTECTOMY FOR PREVENTION OF POST OPERATIVE NAUSEA AND VOMITING

S. Srivastava, S. Dhiraaj, R. Gupta
Anesthesiology, SGPGIMS, Lucknow, India
Critical Care Medicine and Trauma 4
Abstracts in Poster Discussion Round: S-170 – S-174
Presenters in Attendance: 1:00 pm – 2:30 pm

**S-170**
**ASSESSMENT OF PERIOPERATIVE RISK: IMPACT OF CO-MORBIDITIES & TIMING OF TREATMENT ON PERIOPERATIVE MORBIDITY AND MORTALITY**

M. F. Mascia, R. Neusch, S. Stamper
Anesthesiology, West Virginia University School of Medicine, Morgantown, WV

**S-171**
**THE EFFICACY OF LOW DOSE KETAMINE, FENTANYL, AND MIDAZOLAM INFUSION FOR PREOPERATIVE SEDATION, AND POSTOPERATIVE ANALGESIA IN THE ICU**

C. R. Rajaratnam, P. Roffey, M. Mogos, D. Thangathurai
Anesthesiology, USC Keck Medical Center, Los Angeles, CA

**S-172**
**INTRA-ABDOMINAL PRESSURE IN ARDS: THE EFFECT OF PRONE POSITIONING**

E. Galiatsou, A. Moraiti, A. Papathanasiou, G. Nakos
Intensive Care Unit, University Hospital of Ioannina, Ioannina, Greece

**S-173**
**ROLE OF SURVEILLANCE CULTURES IN IDENTIFYING THE PATHOGENS RESPONSIBLE FOR VENTILATOR-ASSOCIATED PNEUMONIA (VAP): ANALYSIS OF COLONIZATION CURVES**

J. Hudcova, Y. Lei, A. Saraar, D. E. Craven
1Department of Surgical Critical Care, Lahey Clinic, Burlington, MA; 2Department of Pulmonary Medicine, Lahey Clinic, Burlington, MA; 3Center for Infectious Diseases & Prevention, Lahey Clinic, Burlington, MA

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Challenging Case Reports 7
Abstracts in Poster Discussion Round: CC-120 – CC-125
Presenters in Attendance: 1:00 pm – 2:30 pm

**PR03-15**
**A CASE OF DIFFICULT INTUBATION SECONDARY TO A FIXED, RETROFLEXED EPIGLOTTIS AND POST-CHEMORADIATION MUCOSITIS, CERVICAL NEURALGIA WITH NECK SPASMS, DYSPHAGIA, ESOPHAGEAL STRICTURE, AND TRISMUS**

A. Wu, M. W. Lew
Anesthesiology, City of Hope, Duarte, CA

**CC-121**
**HEADACHE WITH NEUROLOGICAL DEFICITS AFTER SPINAL ANESTHESIA FOR C-SECTION**

D. Sasikumaran Ushakumari, S. N. Malayaman, P. Kalikiri
Anesthesiology and Perioperative Medicine, Hahnemann University Hospital, Drexel University College of Medicine, Philadelphia, PA

**CC-122**
**NOT YOUR TYPICAL POST-PARTUM HEADACHE**

C. Adams, S. Yazdani, J. Lachmansingh, K. Chaudhuri
Anesthesiology, Texas Tech University HSC, Lubbock, TX

**CC-123**
**ACUTE POSTPARTUM WEAKNESS**

C. Walter, S. Yazdani, A. N. Farag, K. Chaudhuri
Anesthesiology, Texas Tech University HSC, Lubbock, TX

**CC-124**
**PROLONGED MUSCULAR WEAKNESS IN THE PERIOPERATIVE PERIOD WITH NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITOR USE**

S. Yazdani, S. Chaudhuri
Anesthesiology, Texas Tech University HSC, Lubbock, TX

**CC-125**
**THE MANAGEMENT OF UTERO-PLACENTAL UNIT DURING AN EX-UTERO INTRAPARTUM TREATMENT (EXIT) PROCEDURE USING DEXMEDETOMIDINE (DEX) AS AN ADJUVANT**

M. Afridi, A. Qadeer
Anesthesiology and Perioperative Medicine, Georgia Health Sciences University, Augusta, GA
SUNDAY, MAY 20

Abstract Poster Rounds

Education and Patient Safety 6
Abstracts in Poster Discussion Round: S-223 – S-230
Presenters in Attendance: 1:00 pm – 2:30 pm

PRO3-17

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

S-223 VARIOUS OPERATING ROOM DEVICES PRODUCE EXCESSIVE NOISE THAT MAY INCREASE STAFF STRESS AND IMPAIR EFFECTIVE COMMUNICATION

J. P. Anderson, M. J. Sharpe, S. McNulty
Philadelphia, PA

S-224 SURGERY AT THE END OF LIFE: A PRE-PROCEDURE PERSPECTIVE

C. S. Barnett, A. F. Arriga1,2, D. L. Hepner1, D. J. Correll1, A. G. Gawande2,3, A. M. Bader1,2
1Anesthesiology, Perioperative, and Pain Medicine, Brigham and Women’s Hospital, Boston, MA; 2Center for Surgery and Public Health, Brigham and Women’s Hospital, Boston, MA; 3Health Policy and Management, Harvard School of Public Health, Boston, MA; 4Surgery, Brigham and Women’s Hospital, Boston, MA

S-225 OBESITY’S EFFECT ON JOINT REPLACEMENT: A RETROSPECTIVE REVIEW OF EARLY POST-OPERATIVE COMPLICATIONS

L. Boone, W. Lee, J. Widyn, S. Nair, E. Delphin
Anesthesiology, Albert Einstein College of Medicine & Montefiore Medical Center, Bronx, NY

S-226 HANDWASHING COMPLIANCE MAY BE LOWER THAN PREVIOUSLY REPORTED: A VIDEO OBSERVATION STUDY

H. M. Patel, J. P. Rowlands, R. W. Loftus
Department of Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, NH

S-227 FOR NON-ENGLISH SPEAKING PATIENTS IMPROVED COMMUNICATION LEADS TO GREATER SATISFACTION

J. Yin1, B. Dauber1, D. Glick1
1Anesthesia and Critical Care, University of Chicago, Chicago, IL; 2University of Illinois, Chicago, Chicago, IL

S-228 ASSESSING THE IMPACT OF A STRUCTURED AIRWAY SKILLS ROTATION: FROM RESIDENT CLINICAL EXPERIENCE TO FACULTY OPINION

R. G. Wagner, W. A. Weigel
Anesthesiology, Virginia Mason Medical Center, Seattle, WA

S-229 UTILITY OF SIMULATOR BASED TRANSESOPHAGEAL ECHOCARDIOGRAPHY TRAINING FOR RESIDENTS

R. Matyal, J. D. Mitchell, R. Bose, P. Hess, D. Nicolai, F. Mahmood
Anesthesia, Critical Care, and Pain Medicine, Beth Israel Deaconess Medical Center, Boston, MA

S-230 IMPACT ON DEPARTMENTAL PERFORMANCE OF AN ANESTHESIA-LED MODEL FOR INTERDISCIPLINARY LEARNING, INNOVATION, AND IMPROVEMENT

S. Muret-Wagstaff, B. A. Simon
Anesthesia, Critical Care and Pain Medicine, Beth Israel Deaconess Medical Center/ Harvard Medical School, Boston, MA

S-264 THE HEMODYNAMIC CHANGES DURING PERCUTANEOUS CLOSURE OF ATRIAL SEPTAL DEFECT USING AMPLATZER SEPTAL OCCLUDER

Anesthesiology, Toho University, Tokyo, Japan

S-265 RELATIONSHIP ACCURACY OF ESTIMATED CONTINUOUS CARDIAC OUTPUT AND HEMODYNAMIC PARAMETERS

Anesthesiology, Toho University, Tokyo, Japan

S-266 SUCTION DEVICE UTILIZATION STRATEGIES TO REDUCE OPERATING ROOM NOISE

M. J. Sharpe, J. P. Anderson, S. McNulty
Anesthesiology, Thomas Jefferson University Hospital, Philadelphia, PA

S-267 SCALING EXPONENT OF DFA FOR HRV AS AN ASSESSMENT OF ACTIVITY OF ANS DURING SURGICAL OPERATION

J. Yeh1, S. Fan2
1Research Center for Adaptive Data Analysis, National Central University, Taoyuan, Taiwan; 2Anesthesiology, National Taiwan University Hospital, Taipei, Taiwan

S-268 THE ACCURACY OF NONINVASIVE AND CONTINUOUS TOTAL HEMOGLOBIN MEASUREMENT BY PULSE CO-OXIMETRY UNDERGOING HEMODILUTIONAL AUTOLOGOUS TRANSFUSION

J. Saito1, M. Kitayama1, T. Kudo1, H. Hashimoto1, K. Hirota1
1Anesthesiology, Hirosaki University Graduate School of Medicine, Hirosaki, Japan; 2Surgical Center, Hirosaki University Graduate School of Medicine, Hirosaki, Japan

S-269 USE OF FIBER OPTIC SPECTROSCOPIC TECHNOLOGIES TO MONITOR SPINAL CORD ISCHEMIA IN REAL TIME

A. Emanuel1, R. Galler1, A. D’Souza1, R. Mesquita1, A. Yodl1, T. Floyd1,2
1Dept. of Anesthesiology, Stony Brook University Medical Center, Stony Brook, NY; 2Dept. of Surgery, Stony Brook University Medical Center, Stony Brook, NY; 3Dept. of Neurosurgery, Stony Brook University Medical Center, Stony Brook, NY; 4Dept. of Biomedical Engineering, Stony Brook University, Stony Brook, NY; 5Dept. of Physics and Astronomy, University of Pennsylvania, Philadelphia, PA

S-267 – S-269

Equipment / Monitoring 5
Abstracts in Poster Discussion Round: S-264 – S-269
Presenters in Attendance: 1:00 pm – 2:30 pm

PRO3-18

Poster Moderator: I. Hilmi, MB CHB, FRCA, University of Pittsburgh, Wexford, PA

S-264 – S-269

Abstracts in Poster Discussion Round: S-264 – S-269
Presenters in Attendance: 1:00 pm – 2:30 pm
Abstract Poster Rounds  SUNDAY, MAY 20

Regional Anesthesia 4
Abstracts in Poster Discussion Round: S-487 – S-493
Presenters in Attendance: 1:00 pm – 2:30 pm

PR03-19

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

S-487  THE ADDITION OF NERVE STIMULATION TO ULTRASOUND GUIDANCE DOES NOT IMPROVE SUCCESS DURING PLACEMENT OF THE ARROW STIMUCATH AT THE POPLITEAL SCIATIC NERVE: A PROSPECTIVE RANDOMIZED TRIAL

R. McClain1, S. Porter1, D. Wax2, C. Robards1
1Anesthesiology, Mayo Clinic, Jacksonville, FL; 2Anesthesiology, Mt. Sinai Medical Center, New York, NY

S-488  AN ULTRASOUND GUIDED TECHNIQUE FOR PERFORMING THE SUPERIOR LARYNGEAL NERVE BLOCK

B. Kaur, R. Tang, A. Sawka, H. Vaghadia
Department of Anaesthesia, University of British Columbia, Vancouver General Hospital, Vancouver, BC, Canada

S-489  REAL TIME PARAVERTEBRAL BLOCKADE USING A GPS GUIDED ULTRASOUND SYSTEM

B. Kaur, R. Tang, A. Sawka, H. Vaghadia
Department of Anaesthesia, University of British Columbia, Vancouver General Hospital, Vancouver, BC, Canada

S-490  EFFECTS OF NERVE BLOCK COMBINED GENERAL ANESTHESIA ON STRESS RESPONSE IN ELDER PATIENTS WITH LOWER LIMB SURGERY

H. Ma, J. Yu, X. Chen, F. Ma, L. Deng, J. Meng
Anesthesiology Department, General Hospital of Ningxia Medical University, Yinchuan, China

S-491  FEMORAL NERVE SHEATH INFUSION OF FENTANYL CAUSES ANALGESIA WITH SUSTAINED STRENGTH AFTER TOTAL KNEE REPLACEMENT

R. Karlnoski1, K. L. Downes2, E. M. Camporesi1, D. Mangar3
1Florida Gulf-to-Bay Anesthesiology, Tampa, FL; 2Department of Research, University of South Florida, Tampa, FL

S-492  INTERPATIENT VARIABILITY IN INTRATHECAL DRUG DISTRIBUTION: CEREBROSPINAL FLUID PULSATILE MAGNITUDE, FREQUENCY, SOLUTION BARICITY, AND TOXICITY RISKS

Y. Hsu, A. Linninger
Department of Bioengineering, University of Illinois at Chicago, Chicago, IL

S-493  THREE TIMES DAILY SUBCUTANEOUS UNFRACTIONATED HEPARIN AND THORACIC EPIDURAL ANALGESIA: A RETROSPECTIVE REVIEW OF 928 CASES

A. F. Wallace, J. Davis, B. Bankhead, E. Eckman, J. Strunk
Anesthesiology, University of Utah, Salt Lake City, UT
Abstract Poster Rounds
SUNDAY, MAY 20
Cardiothoracic and Vascular - Clinical 5
Abstracts in Poster Discussion Round: S-71 – S-77
Presenters in Attendance: 3:00 pm – 4:30 pm

PR03-20
Poster Moderator: J. DiNardo, MD, Children’s Hospital
Boston, Boston, MA

S-71 WITHDRAWN

S-72 HIGH SPINAL ANESTHESIA IN SEVERE MITRAL STENOSIS: COMPARISON OF HEMODYNAMICS WITH HIGH DOSE OPIOID ANESTHESIA
V. K. Arya1, L. Yaddanapuri1, P. Madhusudan1, S. K. Thingnam2, A. Bahl
1Cardiac Anaesthesia Unit, Department of Anaesthesia & Intensive Care, Postgraduate Institute of Medical Education and Research, Chandigarh, India; 2Department of Cardiothoracic and Vascular Surgery, Postgraduate Institute of Medical Education and Research, Chandigarh, India

S-73 OBSERVATIONAL STUDY OF FUNCTIONAL HEMODYNAMICS DURING ONE LUNG VENTILATION
K. Raghunathan1, W. T. McGee2, R. Thanawala1, C. Gibson1, G. Hochheiser1, R. Ganim1
1Anesthesiology, Baystate Medical Center, Springfield, MA; 2Division of Critical Care, Baystate Medical Center, Springfield, MA

S-74 INCIDENCE OF ASYMPTOMATIC DVTS FOUND IMMEDIATELY PRIOR TO ELECTIVE SURGERY
J. Yin1, K. Clinite1, M. Ngozi2, P. O’Connor1, M. F. O’Connor2, D. Glick1
1Anesthesia and Critical Care, University of Chicago, Chicago, IL; 2University of Illinois at Chicago, Chicago, IL

S-75 INCIDENCE OF POSTOPERATIVE DVTS SHORTLY AFTER ELECTIVE SURGERY
J. Yin1, K. Clinite1, P. Vishwanath1, M. Ngozi2, M. F. O’Connor1, D. Glick1
1Anesthesia and Critical Care, University of Chicago, Chicago, IL; 2University of Illinois at Chicago, Chicago, IL

S-76 PAIN MANAGEMENT FOLLOWING ROBOTIC CORONARY ARTERY BYPASS GRAFTING
M. Snyder1, G. Leyvi1, M. Cecchini1, L. Boone1, S. Nair1, J. DeRose1
1Anesthesiology, Albert Einstein College of Medicine & Montefiore Medical Center, Bronx, NY; 2Cardiothoracic and Vascular Surgery, Albert Einstein College of Medicine & Montefiore Medical Center, Bronx, NY

S-77 KIDNEY INJURY AFTER PERCUTANEOUS AND SURGICAL AORTIC VALVE REPLACEMENT
E. Avaglione, F. Guarracino, R. Baldassarri, L. Lombardi
Cardiothoracic, University Hospital of Pisa, Pisa, Italy

Challenging Case Reports 11
Abstracts in Poster Discussion Round: CC-144 – CC-149
Presenters in Attendance: 3:00 pm – 4:30 pm

PR03-21
Poster Moderator: M. Vallejo, MD, Magee-Women’s Hospital of UPMC, Pittsburgh, PA

CC-144 SEVERE HYPOTENSION AND ST SEGMENT ELEVATION OF NON-CARDIAC ORIGIN: A CASE REPORT
Y. A. Patel, S. Reck
Anesthesiology, Medical College of Wisconsin, Milwaukee, WI

CC-145 A COMPLICATION OF CENTRA VENOUS ACCESS: KNOWING LIMITATIONS
N. D. Patel, Y. F. Rodriguez-Blanco
Jackson Memorial Hospital/University of Miami, Miami, FL

CC-146 SAFE SITTING POSITION IN ADVANCED SPONYLITIS
D. S. Rosenberger-Parravano1,2, T. Heinke2, S. Reeves3
1Department of Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, SC; 2Neuroscience Department, Medical University of South Carolina, Charleston, SC

CC-147 A PRESENTATION OF SVT REFRACTORY TO STANDARD THERAPY
C. R. Rajaratnam, P. Roffey, M. Mogos, D. Thangathurai
Anesthesiology, USC Keck Medical Center, Los Angeles, CA

CC-148 ELEVATED HEMATOCRIT FROM CAPILLARY LEAK IN SEPSIS
C. R. Rajaratnam, P. Roffey, M. Mogos, D. Thangathurai
Anesthesiology, USC Keck Medical Center, Riverside, CA

CC-149 LEFT ATRIAL DISSECTION ASSOCIATED WITH DEVELOPMENT OF PSEUDO-GERBODE’S SHUNT AFTER DOUBLE VALVE REPLACEMENT SURGERY
S. K. Thingnam2, V. K. Arya1
1Cardiac Anaesthesia Unit, Department of Anaesthesia & Intensive Care, PGIMER-Chandigarh, Chandigarh, India; 2Department of Cardiothoracic Surgery, PGIMER-Chandigarh, Chandigarh, India
Abstract Poster Rounds  
SUNDAY, MAY 20

Equipment / Monitoring 6
Abstracts in Poster Discussion Round: S-270 – S-274
Presenters in Attendance: 3:00 pm – 4:30 pm

PR03-22
Poster Moderator: K. Johnson, MD, University of Utah, Salt Lake City, UT

S-270 DETERMINATION OF POSTOPERATIVE AND INTRAOPERATIVE PREDICTORS OF POST-OPERATIVE DETERIORATION
K. Gebre-Amlak\textsuperscript{1}, L. M. Weavind\textsuperscript{2}, J. M. Ehrenfeld\textsuperscript{2}
\textsuperscript{1}Vanderbilt University School of Medicine, Nashville, TN; \textsuperscript{2}Vanderbilt University Medical Center, Nashville, TN

S-271 HOW FAST DOES THE CUFF PRESSURE RISE WHEN USING NITROUS OXIDE?
R. Marks
Miami, FL

S-272 AWARENESS OF POTENTIAL HAZARDS FROM NOISE POLLUTION TO THE ANESTHESIA PROVIDER
J. P. Anderson, M. J. Sharpe, S. McNulty
Anesthesiology, Thomas Jefferson University Hospital, Philadelphia, PA

S-273 A RADIO SYSTEM FOR RELAYING THE PATIENT MONITOR AUDIO OUTPUT TO THE ANESTHESIOLOGIST DURING PEDIATRIC SEDATION
A. Targ
Targ Mobile Anesthesia, Palo Alto, CA

S-274 PERIPHERAL NERVE STIMULATION AND RESIDUAL NEUROMUSCULAR BLOCKADE: INTERIM ANALYSIS OF THE RECITE STUDY
L. Fortier\textsuperscript{1}, D. M. McKeen\textsuperscript{2}, K. Turner\textsuperscript{3}, B. Warriner\textsuperscript{4}, A. J. Chaput\textsuperscript{5}, A. Galarneau\textsuperscript{6}
\textsuperscript{1}Hôpital Maisonneuve-Rosemont, Montréal, QC, Canada; \textsuperscript{2}IWK Health Centre, Halifax, NS, Canada; \textsuperscript{3}Queen’s University, Kingston, ON, Canada; \textsuperscript{4}Vancouver General Hospital, Vancouver, BC, Canada; \textsuperscript{5}The Ottawa Hospital, Ottawa, ON, Canada; \textsuperscript{6}Merck Canada, Kirkland, QC, Canada

Pain – Basic Science 1
Abstracts in Poster Discussion Round: S-342 – S-344
Presenters in Attendance: 3:00 pm – 4:30 pm

PR03-23
Poster Moderator: A. Buvanendran, MD, Rush University Medical Center, Chicago, IL

S-342 ANTONOCICEPTIVE INTERACTION BETWEEN INTRATHECALLY ADMINISTERED BUPIVACAINE AND EPIBATIDINE IN RATS
T. Nishiyama
Anesthesiology and Critical Care, Higashi Omiya General Hospital, Saitama, Japan

S-343 LUMBAR FACET JOINT OSTEOARTHRITIS AND PAIN IN THE RAT
J. Kroin, J. Kim, H. Im, J. Li, K. J. Tuman, A. Buvanendran
Rush Medical College, Chicago, IL

S-344 REPEATABILITY OF PERCUTANEOUS INTRATHECAL INJECTIONS IN MICE
J. Kroin, J. Li, M. Moric, A. Buvanendran
Rush Medical College, Chicago, IL
S-403 EFFECTS OF EXPOSURE TO GENERAL ANAESTHESIA IN INFANCY ON ACADEMIC PERFORMANCE AT AGE 12

C. L. Bong¹, J. Tan¹, J. W. Koh², J. Soo³, S. Lum¹
¹Department of Paediatric Anaesthesia, KK Women’s and Children’s Hospital, Singapore, Singapore;
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³National University of Singapore High School of Mathematics and Science, Singapore, Singapore

S-404 METABOLIC STATUS IN NEONATAL RAT BRAIN IN RESPONSE TO GENERAL ANAESTHESIA DIFFERS FROM THE YOUNG RAT BRAIN: THE ROLE OF GLUTAMATE

R. Makaryus, H. Lee, Z. Jacob, M. Yu, T. Feng, H. Benveniste
Anesthesiology, Stony Brook University Medical Center, Stony Brook, NY

S-405 EMBRYONIC STEM CELL BASED INSIGHTS INTO ANESTHESIA INDUCED COGNITIVE DEFICIT: A ROLE FOR ALTERED NEUROGENESIS

O. Johnson-Akeju¹, K. Eggar²
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S-406 CHRONIC MORPHINE ADMINISTRATION LEADS TO INCREASED NEUROAPOPTOSIS IN NEWBORN RATS

D. Bajic, K. G. Commons, S. G. Soriano
Department of Anesthesiology, Perioperative and Pain Medicine, Children’s Hospital Boston, Boston, MA

S-461 RANDOMIZED CONTROLLED TRIAL OF SEVOFLURANE VS. PROPOFOL TO PREVENT MYOCARDIAL ISCHEMIA IN NONCARDIAC SURGERY PATIENTS

G. A. Lurati Buse¹, P. Schumacher², W. Studer³, E. Seeberger¹, D. Bolliger¹, M. Seeberger¹
¹Anesthesiology, University Hospital Basel, Basel, Switzerland; ²Anesthesiology, Bürgerspital Solothurn, Solothurn, Switzerland; ³Anesthesiology, Kantonsspital Liestal, Liestal, Switzerland

S-462 DEVELOPMENT OF PROPOFOL-REMIFENTANIL DOSING MULTIOBJECTIVE OPTIMIZATION ALGORITHM FOR MODERATELY PAINFUL PROCEDURES REQUIRING EOSOPHAGEAL INSTRUMENTATION

C. LaPierre, K. B. Johnson, D. Westenskow, T. Egan
Bioengineering and Anesthesiology, University of Utah, Salt Lake City, UT

S-463 IMPACT OF SEVOFLURANE VS. PROPOFOL ON NT–PROBNP RELEASE AFTER NONCARDIAC SURGERY- A RANDOMIZED CONTROLLED TRIAL

G. A. Lurati Buse¹, P. Schumacher², R. Schumann³, J. Fassl¹, D. Bolliger¹, M. Seeberger¹
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S-464 PREOPERATIVE CARBOHYDRATE ADMINISTRATION PREVENTS CATABOLISM OF FAT

N. Morioka, R. Kanamori, K. Shimizu, T. Uno, M. Ozaki
Tokyo Women’s Medical University, Yokohama, Japan

S-465 UDP GLUCURONOSYLTRANSFERASE 2B7 (802G>T, RS7439366) INFLUENCES SERUM LEVELS OF MORPHINE AND MORPHINE GLUCRONIDES INVERSELY TO PUPIL EFFECTS AFTER I.V. CYCLOSPORINE IN A CROSSOVER VOLUNTEER STUDY

K. Meissner¹,², H. E. Meyer zu Schwabedissen³, C. E. Göpfert³, J. Blood¹, T. Kim², E. Klarasch¹
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S-466 THE EFFECT OF APREPITANT FOR THE PREVENTION OF POSTOPERATIVE NAUSEA AND VOMITING IN PATIENTS UNDERGOING GYNECOLOGIC SURGERY WITH INTRAVENOUS PATIENT-CONTROLLED ANALGESIA USING FENTANYL

K. Soon Im, L. Se Jin
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Technical Exhibits Floor Plan

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Ultrasound: Application and Uses in Anesthesia

There are several applications of Ultrasound in Clinical anesthesia such as clinical procedures and peripheral nerve blocks. Cannulations of vessels are made simple in difficult cases and the use of echocardiography in early diagnosis and prompt treatment of cardiac diseases improved the safety of patients. Also Interventional pain procedures are performed safely under the Ultra sound guidance. These applications will be displayed with photographs in this exhibit.

Raghuvender Ganta, MD, FRCA
Andrew Fine, MD
Blake Christensen, DO

Web-Site Teaching of Simple Techniques to Reduce Anesthesia Risks and Improve Patient Safety in Remote Anesthesia Locations (www.TSEMask.com)

Risks of anoxic brain injuries are much higher in remote locations than in OR. Early recognition of respiratory depression with capnography prevents severe desaturation. This exhibit demonstrates how to improve quality of capnography by transforming nasal cannulas to face tents and how to monitor respiration when capnography is unavailable (www.TSEMask.com).

James Tse, PhD, MD
Tejal Mehta, MD
Shruti Shah, MD
Kristen Dauphinee, MD
Gina George, DO

The International Society for Anaesthetic Pharmacology (ISAP) (formerly the Society for Intravenous Anesthesia) is a nonprofit organization with an international membership, which is dedicated to teaching and research about clinical pharmacology in anesthesia, with particular reference to anesthetic drugs.

The Society for Technology in Anesthesia (STA) is an international organization of physicians, engineers, students and others with an interest in anesthesia-related technologies. Membership is open to all who are interested. The journal, Anesthesia & Analgesia is STA’s official publication. A quarterly newsletter; Interface, is published and available online.
Advanced Infusion, Inc.  ................................... Table 19

www.advancedinfusion.com
Manufacture and sell disposable infusion pumps and catheters for post-surgical pain control.

Anesthesiology News........................................Table 20

www.anesthesiologynews.com
Anesthesiology News (AN), the best-read publication for the specialty, is mailed monthly to all 44,832 anesthesiologists and anesthesiology residents in the United States. This medical newspaper offers extensive coverage of major clinical meetings affecting the specialty and feature articles on topics relevant to practicing anesthesiologists. AN also presents in-depth clinical reviews written by thought leaders, cutting-edge practice management articles, medical education and CME activities.

Arizant Healthcare Inc., a 3M Company. ....... Table 1

www.arizanthehealthcare.com
Arizant Healthcare Inc., a 3M Company, pioneered the concept of forced-air patient warming with the introduction of Bair Hugger™ therapy in 1987. Today, our ground-breaking lineup of temperature management products includes the Bair Paws™ system and the Ranger™ fluid warming systems.

CLEVELAND CLINIC ABU DHABI  •  Table 12

www.clevelandclinicabudhabi.ae
Scheduling interviews with the Chair of the Anesthesiology Department at IARS 2012. Cleveland Clinic Abu Dhabi is recruiting physicians of anesthesia to become part of its new multi-specialty hospital in Abu Dhabi, United Arab Emirates. This 360 (expandable to 490) bed facility will be a unique and unparalleled extension of the Cleveland Clinic model of care.
You will join a world-class team as it establishes a top tertiary/quaternary care hospital in the Middle East. Currently under construction, the facility is set to open its doors in late 2013. For consideration, please apply directly online with a current curriculum vitae and stop by the Cleveland Clinic Abu Dhabi table to indicate your availability to interview during IARS 2012.

ConMed.................................................Table 4

www.conmed.com
ConMed presents the ECOM® Endotracheal Cardiac Output Monitoring system. ECOM utilizes a standard endotracheal tube that is inserted using normal ET placement techniques. Based on impedance cardiography, the ECOM system provides cost-effective, beat-to-beat monitoring of cardiac output, cardiac index, stroke volume, stroke volume variation and systemic vascular resistance.
Grifols USA

www.grifols.com

Grifols is a global healthcare company whose mission is to improve the health and well being of people around the world. We accomplish this mission by producing life-saving protein therapies for patients and by providing hospitals, pharmacies and healthcare professionals with the products they need to deliver expert medical care.

Hospira

www.hospira.com

Hospira presents the latest regarding Precedex™ (dexmedetomidine HCl Injection) — see full prescribing information. 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.

Karl Storz Endoscopy-America, Inc.

www.karlstorz.com

Karl Storz offers products to simplify airway management – including unexpectedly difficult intubations. Portable and cart-based video laryngoscopes, intubation-fiberscopes and fiber optic stylets provide distinct advantages in the OR, ER and ICU. All intubation instruments are available in pediatric to adult sizes. The latest addition, the fully portable C-MAC™ video laryngoscope with standard shaped MACINTOSH blades, allows recording of still images and video sequences.

LMA North America, Inc.

www.lmana.com

LMA North America, Inc. is a San Diego-based company dedicated to continuously improving patient care through the marketing and sales of high quality, innovative, proprietary products for anesthesia and critical care. The LMA™ family of products have significantly improved patient outcomes and been used on over 300 million patients worldwide.

Masimo Corporation

www.masimo.com

Masimo is a global medical technology company that develops and manufactures innovative noninvasive 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 noninvasive technologies that are revolutionizing patient monitoring, including Masimo SET® pulse oximetry, Masimo rainbow SET® noninvasive and continuous total hemoglobin (SpHb®), acoustic respiration rate (RRa™), Masimo Patient SafetyNet™, and SEDLine® (EEG-based) Brain Function Monitors.
Med Man Simulations, Inc.  Med Man Simulations, Inc. is a non-profit organization offering Gas Man®, a valuable teaching tool that teaches the pharmacokinetics of inhalation anesthetics to residents, faculty, researchers, cost-managers, pharmacists, and anyone wanting to be an expert in any aspect of inhalation anesthesia. Gas Man® is the unique computer tool for teaching, simulating and experimenting with anesthesia uptake and distribution. Our software is used widely both in the U.S. and internationally.

Mercury Medical.  The New air-Q® SP, the first Self-Pressurizing laryngeal mask, eliminates the guesswork of laryngeal mask cuff inflation. Positive pressure ventilation pressurizes the mask cuff. This increase in cuff seal pressure occurs at the time you need it, during the upstroke of ventilation. The New Flow-Safe™ II CPAP Device, delivers high FiO2 with over 50% less oxygen consumption. Titrable CPAP pressure up to 10 cm H2O using standard flowmeters. Deluxe mask and built-in manometer verifies CPAP pressure.

Parker Medical.  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 Parker Flex-Tip Endotracheal Tube which recently was granted a 510k by the FDA for Nasotracheal intubations, as well as our Flex-It Directional Stylet, and our disposable, silicone, Parker Laryngeal Mask Device.

Piramal Critical Care  Piramal Critical Care is the world’s 3rd largest manufacturer of inhalation anesthetics and a global supplier of inhalation anesthetic agents for both human and veterinary use. Our leading products are Sevoflurane and Isoflurane. Visit us at the IARS Annual Meeting for more information on our current and future anesthesia products and details on our vaporizer program.

Ultrasonix Medical.  Ultrasonix is a leading developer and manufacturer of high quality diagnostic ultrasound imaging systems. The SonixTOUCH Anesthesia has a unique set of features for nerve block guidance and vascular access including SonixGPS, Ultrasonix proprietary technology for freehand guidance of needles in-plane and out-of-plane. The company’s unique OpenSONIX ultrasound technology provides superior image quality, ease of use and clinical flexibility to adapt to the needs of a variety of specialties.
IARS 2012 Annual Meeting Headquarter Hotel
Boston Marriott Copley Place
110 Huntington Avenue
Boston, Massachusetts 02116
Phone: (617) 236-5800

Meeting Room and Tabletop Exhibits
The majority of meeting rooms and the table-top
exhibits are located on the fourth floor of the Marriott
Copley Place. A Room Locator providing session room
assignments will be provided at Registration. Please see
page 90 for hotel meeting room floor plans.

Meeting Registration Location
The IARS Registration Desk is located on the fourth floor
of the Marriott Copley Place.

Meeting Registration Hours
Friday, May 18 ............... 6:00 am – 5:30 pm
Saturday, May 19 .............. 6:00 am – 5:30 pm
Sunday, May 20 ............... 6:30 am – 5:00 pm
Monday, May 21 ............. 6:30 am – 11:30 am

Annual Meeting Registration Fee
The Annual Meeting Registration Fee includes access to
the International Science Symposium, the T.H. Seldon
Memorial Lecture, Review Course Lectures, Interactive
Panel Sessions, Moderated Poster Discussion Rounds,
Tabletop Exhibit Displays, and meeting food and
beverage breaks.

Problem-Based Learning Discussions (PBLD’s),
Workshops and the History of Anesthesia Tour is an
additional fee and are non-refundable once purchased.

Attendee Badges:
Please wear your badge at all times while attending
sessions and functions. Your badge is required for
admittance to all meeting rooms and food and beverage
breaks.

Attendee Flash Drive
Attendees will each receive an Annual Meeting Flash
Drive with a copy of the IARS 2012 Final Program,
Preliminary Abstract Supplement, and Review Course
Lecture Book. These documents will also be posted on
the IARS website at the start of the meeting.

The Abstract Supplement will be updated and posted
in final format to the IARS website thirty days after the
Annual Meeting and will be available to IARS members
and IARS 2012 Annual Meeting Attendees.

Online CME:
Visit the Cyber Center on the fourth floor foyer to access
the online IARS CME. You may enter your credits online
at the meeting and then print your CME certificate
after the event from your office/home (we will not have
printers onsite). An instruction sheet will be included
with your attendee materials. Please note that all CME
will be managed online.

Cyber Center:
A complimentary Cyber Center will be provided for
attendees at the meeting on the fourth floor foyer. Please
limit your time to ten minutes per use to allow all
registrants access.

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

No Smoking:
Smoking is not permitted in any of the meeting room
areas of the hotel nor where IARS-sponsored activities
are scheduled. We respectively request that you abide by
our smoke-free policy.

Electronic Devices:
Please mute the sound on all electronic devices during
education sessions. Videotaping, filming and recording
of sessions is not allowed without written permission
from the presenter(s).

Photography Release
The IARS plans to take photographs at the 2012
Annual Meeting and reproduce them in IARS news
or promotional material whether in print, electronic
or other media, including the IARS website. By
participating in the 2012 IARS Annual Meeting you grant
the IARS the right to use your name, photograph, and
biography for such purposes.

Technical and Scientific Education Tabletops
Exhibits are located on the fourth floor foyer.
Friday, May 18 ............... 7:00 am – 1:00 pm
Saturday, May 19 .......... 7:00 am – 1:00 pm
Networking Reception .......... 6:30 pm – 7:30 pm
Sunday, May 20 ............ 7:00 am – 1:00 pm
IARS 2012 Annual Meeting Floor Plan
Marriott Copley Place

Fourth Floor

Clinical Research Symposium
Moderated Poster Discussion Rounds
T.H. Seldon Memorial Review Course Lectures
International Science Symposium
Resident Symposium
Panel Lectures
FOYER
Technical Exhibitors
Scientific & Society Exhibitors

Problem Based Learning
Discussions

PROVINCETOWN
HYANNIS
YARMOUTH
NANTUCKET
WYOMING
VINEYARD
ORLEANS
FALMOUTH

Cyber Center
Registration
Loving Cup

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