

IARS

81st Clinical and
Scientific Congress

March 23–27, 2007
Buena Vista Palace
Orlando, Florida



Final Program

IARS 81st CLINICAL AND SCIENTIFIC CONGRESS – BUENA VISTA PALACE, ORLANDO, FLORIDA – SCIENTIFIC MEETING SCHEDULE

	GREAT HALL BOOTH	GREAT HALL NORTH	GREAT HALL CENTER	GREAT HALL EAST	GREAT HALL WEST	KNIGHTS HALL	EVENT CENTER	
	REGISTRATION DESK	REVIEW COURSE LECTURES	MODERATED POSTER DISCUSSION ROUNDS	PANELS	PANELS	WORKSHOPS	SCIENTIFIC & TECHNICAL EXHIBITS	
S M A T U R D A Y	7:00-4:30	REGISTRATION*	POSTERS DISPLAYED 8:00-4:30				7:30 – EXHIBITS OPEN 7:30 – 8:00 CONT. BRKFT	
	8:00-9:30		See Pages 16 & 17 for listing.	SNACC Head Trauma: Where Are We and Where Are We Going? Tommasino/Sortano/Matta/Vavilala/Kalkman—Page 12	O.R. Management Kapur/Lubarsky/Dexter Page 13	Simulation in Anesthesia Barach/Salas/Azocar 8:00 – 10:00 Page 15	COFFEE BREAK 9:30 – 10:15	
	9:30-10:15	COFFEE BREAK/EXHIBITS						
	10:15-11:45	LUNCH/EXHIBITS		See Pages 17 & 18 for listing.	Ultrasound in Anesthesiology Johnson/Swenson Page 12	IARS NIH Symposium 8:00 -4:30 Pages 9 & 10 Islander Room	LUNCH BREAK 11:45 – 1:00	
	1:00-2:30			See Pages 19 & 20 for listing.	LICAGE Panel: The Patient with Liver Disease for Non-Hepatic Surgery Steadman/Gelman/Pardo/Hevesi – Page 12			
	2:30-3:00	SODA BREAK		See Pages 20, 21, & 22 for listing.	Adverse Drug Reactions (ADRs) Donati/Lovy/Sebel Page 13	Ultrasound Guided Vascular Access Sandhu 2:30 – 4:30 - Page 15	1:00 – EXHIBITS CLOSE	
	3:00-4:30							
S U N D A Y	7:30-4:30	REGISTRATION	POSTERS DISPLAYED 8:00-4:30				7:30 – EXHIBITS OPEN 7:30 – 8:00 CONT. BRKFT	
	8:00-9:30		See Pages 27 & 28 for listing.	Liver Transplant Steadman/Hevesi/Csete Page 24	ASA Task Force Horlocker/Comis/Nickinovich/Wu Page 25	Airway Walsh 8:00 – 11:00 Page 26	COFFEE BREAK 9:30 – 10:15	
	9:30-10:15	COFFEE BREAK/EXHIBITS						
	10:15-11:45	LUNCH/EXHIBITS		See Pages 29 & 30 for listing.	SPA: Current Topics and Controversies in Pediatric Anesthesia Deshpande/Mason/Holzman – Page 24	Practical Aspects of Peripheral Nerve Blockade Hebl/Kopp/Enneking/Liu – Page 25	LUNCH BREAK 11:45 – 1:00	
	1:00-2:30	SODA BREAK						
	2:30-3:00							
	3:00-4:30			See Pages 30, 31, & 32 for listing.	SAMBA: Controversies in Ambulatory Anesthesia Maurer/Glass/Gan – Page 24	TEE: Basics for the Novice User – Sniezinski/Chahalan/Whitley 2:30 – 4:30 – Page 26	EXHIBITS OPEN 4:30 – 6:30 RECEPTION	
M O N D A Y	7:30-4:30	REGISTRATION	POSTERS DISPLAYED 8:00-4:30				7:30 – EXHIBITS OPEN 7:30 – 8:00 CONT. BRKFT	
	8:00-9:30		See Pages 39 & 40 for listing.	ASCCA: Tissue Perfusion in Sepsis: from Systemic Hemodynamics to the Micro-circulation – Takala/Ellis/Sladen – Page 34	SOAP: Controversies in Obstetric Anesthesia Wlody/Gm/Santos/Hawkins Page 35	Nerve Block Rosenberg 8:00 – 11:00 Page 38	COFFEE BREAK 9:30 – 10:15	
	9:30-10:15	COFFEE BREAK/EXHIBITS		See Pages 41 & 42 for listing.	Perioperative Lung Injury Ramsay/Slinger/Gal Page 34	Information Technology – What is New? Reich/McNear/McDonald/Barach Page 37		
	10:15-11:45	LUNCH - ON OWN		See Pages 42 & 43 for listing.	Best of ASRA Hebl/Horlocker/Neal Page 34	How to Get a Manuscript Published Schwimm/Neal/Newman/Gregg/Shafter Page 37	Nerve Block Rosenberg 2:00 – 5:00 Page 38	Kosaka Session 1:00 – 2:30 – Page 35 Room: Scotland A/B
	1:00-2:30	SODA BREAK		See Pages 44 & 45 for listing.	SCA: Priebe/London/Landesberg Page 35	ISAP Session Struys/Flood/Egan/Bovill/Shafter Page 38		
	2:30-3:00							
	3:00-4:30							
T U E S D A Y	7:30-11:00	REGISTRATION	CONT. BREAKFAST 7:30-8:00					
	8:00-9:30		8:00 – R24 Sleigh 8:50 – R25 Shafter Page 46	How Outcomes Assessment for Pain Management will Need to Change in the Future? – Rowlingson/Durieux – Page 46	ABA Session Kapur Page 46			
	9:30-10:00	COFFEE BREAK						
	10:00-11:30		BEST OF THE MEETING Page 46					

*Registration will be open from 1:00-7:00 on Friday, March 23.

Color Key: Basic Clinical Research – Clinical Update – Education/Policy

March 23, 2007



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Dear Colleague:

Welcome to Orlando and the IARS 81st Clinical and Scientific Congress. We are very pleased that you have taken the time from your teaching, research, and practice to join us for this superior educational opportunity.

Our Program Committee, led by Co-Chairs Dr. James Ramsay and Dr. Debra Schwinn, has assembled an outstanding program of sessions covering best practices in clinical care and the latest advances in scientific research. This year's highlights include:

- The T.H. Seldon Memorial Lecture, Sunday at 1:00PM in the Great Hall North – Dr. Tony Yaksh, Distinguished Professor in Anesthesiology and Pharmacology at the University of California, San Diego, will speak on “Spinal Drug Delivery: Technology, Biology, and Toxicology.” His lecture on this important topic is sure to be enlightening.
- The IARS NIH Investigator’s Symposium, starting at 8:00AM on Saturday in the Islander Room – An exciting new program this year, the IARS NIH Symposium brings together federally-funded investigators from anesthesiology departments across the country to address important questions in anesthesiology and other areas of medicine and research.
- The Kosaka Abstract Session, Monday at 1:00PM – First offered in 2006, the Kosaka Session promotes interaction between Japanese anesthesiology researchers and their colleagues throughout the world. The Kosaka Award will be presented at this session.
- Workshops providing hands-on learning experiences in the areas of Simulation in Anesthesia, Ultrasound-Guided Vascular Access, Advanced Airway Management, TEE Basics, and Peripheral Nerve Blocks. Workshop attendance is limited.
- 24 Panels presented Saturday through Tuesday in the Great Hall East and Great Hall West, featuring noted scientists and clinicians sharing their expertise. Panels have attendance limits and are first-come, first-served.
- 24 Review Course Lectures presented Saturday through Tuesday in the Great Hall North on topics ranging from clinical processes to patient safety.
- Dozens of scientific abstracts presenting the latest in anesthesiology research in Moderated Poster Discussion Rounds throughout the Congress Awards Sessions, sponsored by the IARS Research Awards and Teaching Recognition Awards Committees, to celebrate the work of the current holders of the Frontiers in Anesthesia Research Award, the Clinical Scholar Research Award, and outstanding anesthesiology educators.
- Scientific and Technical Exhibits, on Saturday through Monday in the Events Center – The exhibits provide an opportunity to see what’s new and coming from scientific investigators and from companies with products supporting the practice of anesthesiology. The exhibits are an important part of our Congress, and we ask you to allocate sufficient time to meet and interact with our exhibitors.

This year’s IARS Congress offers much more than these highlights. Please review this program carefully to familiarize yourself with all of the opportunities available to you over the next four days. Again, welcome, and thank you for coming to Orlando. We hope that you will enjoy and take advantage of the educational sessions, the opportunity to share ideas and experiences with anesthesia leaders, and the pleasant surroundings of the Orlando area.

Sincerely,

Donald S. Prough, MD
Chair, IARS Board of Trustees

IARS

81st Clinical and Scientific Congress Highlights

Review Course Lectures
Panels
Workshops
Moderated Poster Discussion Rounds

Plenary Session
Sunday, March 25, 2007
Great Hall North
1:00 – 2:00 p.m.
T.H. Seldon Memorial Lecture
Tony L. Yaksh, MD

Spinal Drug Delivery: Technology, Biology, and Toxicology
see Page 4 for details

Program Committee

Co-Chairs

James G. Ramsay, MD
Emory University School of Medicine
Atlanta, Georgia

Debra A. Schwinn, MD
Duke University Medical Center
Durham, North Carolina

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Ehime University School of Medicine
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T.H. SELDON MEMORIAL LECTURE
SUNDAY, MARCH 25
1:00 – 2:00
GREAT HALL NORTH



Tony L. Yaksh, MD
Distinguished Professor in
Anesthesiology and
Pharmacology
University of California,
San Diego

**Spinal Drug Delivery:
Technology, Biology, and Toxicology**

Tony Yaksh obtained his Ph.D. degree from Purdue University (1971) and served in the U.S. Army, working in the Biomedical Laboratory at Edgewood Arsenal, MD (1971-73). He was a research scientist in the School of Pharmacy, University of Wisconsin (1973-76) and an Associate Research Scientist in the Anatomy Department at University College London (1976-77). From 1977 to 1988 he worked at the Mayo Clinic, Rochester, MN, reaching the rank of Professor in Pharmacology and Neurosurgery. Dr. Yaksh joined the University of California, San Diego in 1988 as Professor and Vice Chairman for Research in the Department of Anesthesiology, and Professor of Pharmacology. He has been funded consistently by the NIH since 1977 and has been a mentor to more than

100 post-graduate fellows. Dr Yaksh describes the goal of his research as follows: “to understand the encoding process for nociceptive information to permit development of pharmacological therapies for the management of pain.” His research is the three areas of pharmacology of afferent & spinal systems which process nociceptive information, mechanisms of cancer pain and the pharmacology of its management, and the kinetics and safety of spinal drug delivery.

Dr. Yaksh has received several prestigious awards, including the FWL Kerr Award of the American Pain Society, Peter W. Lampert Memorial Lecturer, Academy of Pain Medicine Award for Outstanding Contributions to Pain Medicine, and the American Society of Anesthesiology (ASA) Annual Award for Excellence in Research. Dr. Yaksh was appointed to the Editorial Board for *Anesthesia and Analgesia* in 2005 as section editor for Pain Mechanisms, and we are delighted that he has accepted our invitation to be the 2007 Seldon Lecturer.

IARS Future Congress Dates

<p>March 28-April 1, 2008</p> <p>IARS 82nd Congress</p> <p>Hyatt Regency Embarcadero</p> <p>San Francisco, California</p>	<p>March 13-17, 2009</p> <p>IARS 83rd Congress</p> <p>Manchester Grand Hyatt</p> <p>San Diego, California</p>	<p>March 26-30, 2010</p> <p>IARS 84th Congress</p> <p>Hilton Hawaiian Village</p> <p>Honolulu, Hawaii</p>
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GENERAL INFORMATION

Registration Hours:

Friday, March 23	1:00 pm - 7:00 pm
Saturday, March 24	7:00 am - 4:30 pm
Sunday, March 25	7:30 am - 4:30 pm
Monday, March 26	7:30 am - 4:30 pm
Tuesday, March 27	7:30 am - 11:00 am

On-site Registration Fees:

IARS Members and Associate Members	\$550*
IARS Joint Resident Members	\$75
IARS Joint Resident/Educational Members	\$150**
Non-Members	\$725
Non-Member Residents/Educational	\$150

*New IARS Members - add dues payment of \$140 for one-year Membership/Subscription.

**New Joint Resident/Educational Members - includes dues payment of \$75 for one-year Membership/Subscription.

The IARS accepts payments using American Express, Discover, MasterCard and Visa.

The registration fees shown above include Review Course Lectures, Panels, Poster Discussion Rounds, meeting materials, continental breakfast, coffee breaks, reception and lunch on Saturday and Sunday. There is a non-refundable \$50.00 registration fee to attend each workshop.

No Registration Fee for spouses of registrants, unless attending the meeting for professional credit.

Technical & Scientific/Educational Exhibits will be in the Event Center.

Exhibit Hours and Activities:

Saturday, March 24

7:30 am - 1:00 pm	Exhibit Hours
7:30 am - 8:00 am	Continental Breakfast
9:30 am - 10:15 am	Coffee Break
11:45 am - 1:00 pm	Lunch Break

Sunday, March 25

7:30 am - 1:00 pm	Exhibit Hours
and 4:30 pm - 6:30 pm	Reception
7:30 am - 8:00 am	Continental Breakfast
9:30 am - 10:15 am	Coffee Break
11:45 am - 1:00 pm	Lunch Break

Monday, March 26

7:30 am - 12:00 pm	Exhibit Hours
7:30 am - 8:00 am	Continental Breakfast
9:30 am - 10:15 am	Coffee Break
	Lunch - on your own

Tuesday, March 27 - No Exhibits

Breakfast and break will be held in the Great Hall.

7:30 am - 8:00 am	Continental Breakfast
9:30 am - 10:00 am	Coffee Break

Please note that for safety precautions strollers and children under the age of 15 will not be permitted in the Exhibit Hall.

Meeting Badge required for admittance to all meeting rooms and exhibits.

Special Needs: If you have a disability and require specific accommodations in order to fully participate in the IARS Congress, please contact the IARS staff to discuss your specific needs.

No Smoking: Smoking is not permitted in any meeting room, registration area, exhibit hall, or any area where the IARS-sponsored activities are scheduled.

Cyber Café/Email: As a service to Congress Registrants, IARS is providing a complimentary Cyber Café in the Registration Foyer where email messages may be sent and retrieved via the Internet. Please limit your access time to 10 minutes.

IARS 82nd Congress: Make plans to attend the IARS 82nd Clinical and Scientific Congress, March 28-April 1, 2008 at the Hyatt Regency Embarcadero Center in San Francisco, California. The abstract submission site will be available in July with a submission deadline date of August 31, 2007.

Online CME Evaluation: IARS will provide online CME session tracking and online evaluations via the Internet. The site location will be provided at the meeting along with assistance if needed. No paper submissions will be accepted. CME certificates will be mailed approximately 6-8 weeks after the meeting. You may also print your CME certificate online from your office when you return from the meeting.

IARS NIH Investigator's Symposium will be held Saturday, 8:00-4:30 in the Islander Room. See page nine for details.

SCIENTIFIC MEETING INFORMATION – CME

Continuing Education Credit

AMA: The International Anesthesia Research Society is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The IARS certifies that the 81st Clinical and Scientific Congress meets the criteria for **29.5 AMA PRA Category 1 credit(s)**TM.

AANA: CRNAs must secure post-meeting approval from the AANA. Appropriate forms will be available at the meeting.

No paper submissions will be accepted. CME certificates will be mailed approximately 6-8 weeks after the meeting. You may also print your CME certificate online from your office when you return from the meeting.

This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Medical Education.

Review Course Lectures will be presented Saturday through Tuesday in Great Hall North. A book that includes outlines of the lectures will be in the meeting portfolio. IARS Members will receive a copy as a Supplement to the April 2007 issue of *ANESTHESIA & ANALGESIA*. Additional copies can be purchased at IARS registration for \$10 per copy, or by mail request to IARS Headquarters.

Panels on a wide variety of topics will be held Saturday through Tuesday in Great Hall East and Great Hall West. **There will be no reserved tickets or pre-registration for Panels. Please note that Panels will have limited attendance and are available on a first-come, first-served basis.**

Workshops will be held Saturday through Monday. See the daily meeting schedule on the inside cover for Workshop titles, days, times and rooms. Participation in the Workshops is limited and available on a first-come, first-served basis. **There is a non-refundable \$50.00 registration fee to attend each workshop.** Check at the registration desk for workshop ticket availability.

Moderated Poster Discussion Rounds: Moderators selected for their experience and expertise will conduct rounds by abstract category and briefly discuss the abstracts. Abstract Presenters are listed in bold in this Program.

The Best of Meeting Abstracts nominees are noted with * preceding the supplement number on the day the abstract is presented. A complete listing is on page 46.

The Best of Section Abstracts are noted with ** preceding the supplement number on the day they are presented.

The Kosaka Session Abstracts are noted with *** preceding the supplement number on the day they are presented. A complete list is on page 36.

Abstract Supplement: The Abstracts supplement is **only** available online at www.iars.org. Abstracts are indexed, searchable and available as a .pdf file.

Faculty Disclosure: Invited speakers listed in this Final Program with an asterisk (*) printed next to their name have voluntarily acknowledged disclosure information. See page 22 for details. If Abstract Presenter disclosure information was acknowledged, details are noted on the page of the specific abstract.

IARS Mission Statement

The goal of the IARS CME activities is to disseminate current, state-of-the art basic and clinical research data, as well as the newest advances in all areas of clinical anesthesia care, including perioperative medicine, critical care, and pain management. In addition, the IARS mission is to encourage, stimulate, and fund ongoing anesthesia-related research and projects that will enhance and advance the specialty.

The target audience is comprised of individuals worldwide who are engaged in all aspects of anesthesiology: physicians in clinical practice of anesthesia; physicians in academia; physicians or PhD's engaged in research; physician residents in training programs; individuals in the allied health professions.

To fulfill the stated mission the Society publishes a monthly scientific journal, *ANESTHESIA & ANALGESIA*; sponsors an annual clinical and scientific congress; funds anesthesia-related research; and sponsors the Global Perioperative Research Organization (GPRO).

The expected outcome of the IARS CME program is more knowledgeable and informed participants, provided with current knowledge in clinical care and research, applicable to their clinical practice.

IARS TEACHING AWARD – 2007 COMPETITION

Submit your application for the IARS 2007 Anesthesiology Teaching Recognition Award

Application Deadline: May 14, 2007

The IARS Teaching Recognition Award was established
to recognize an individual with outstanding teaching skills.

New for 2007!

The IARS is pleased to announce the creation of two Teaching Recognition Awards for 2007. The IARS Teaching Recognition Award for **Achievement in Education** is designed to recognize outstanding career contributions by senior faculty. The IARS Teaching Recognition Award for **Innovation in Education** is designed to recognize extraordinary educational programs devised by junior or middle level faculty.

Each award includes the following items:

- \$5,000 to the recipient,
- \$10,000 grant to the recipient's institution to be used for education in anesthesia,
- **FREE one-year IARS Membership to all residents of the winning applicant's department,**
- Public recognition at the IARS 82nd Clinical and Scientific Congress Awards ceremony in San Francisco, March 2008.

The IARS will announce the recipient of the tenth award in the October 2007
issue of *ANESTHESIA & ANALGESIA*.

For consideration, submit the following items:

- Official Teaching Portfolio;
- Five letters of recommendation from one of each of the following certifying the applicant's outstanding skills as a clinical teacher, lecturer, and role model:
 - 1) Applicant's Chairperson,
 - 2) Fellow,
 - 3) Resident (two letters may be provided by Residents if no Fellow contact),
 - 4) Medical Student,
 - 5) External Referee (outside candidate's department - may be from same or different institution);
- To qualify, applicants must be a member of the IARS and have at least three years of faculty experience;
- One application per academic department will be considered;
- Application and Application Guidelines are available at the IARS website.

Visit www.iars.org for application and guidelines.

Stop by the Teaching Recognition Booth in the exhibit hall to see the Teaching Portfolios of the 2006 and 2005 Award recipients and honorable mentions.

AWARD ANNOUNCEMENTS

The following award items will be announced preceding the T.H. Seldon Memorial Lecture.

SCIENTIFIC EXHIBIT AWARDS

Scientific Exhibit award recipients will be announced.

IARS CLINICAL SCHOLAR RESEARCH AWARDS

The Clinical Scholar Research Award was instituted in 1993 by IARS for investigation in human subjects. Recipients of the 2007 Clinical Scholar Research Awards:

Klaus Hahnenkamp, MD - University Hospital, Münster "Perioperative Protective Effects of Lidocaine, Clinical Study on the Route and Timing of Administration"

Kerstin Jurk, MD - University Hospital Münster, "Role Of Platelets As Inflammatory Modulators In The Pathogenesis Of Sepsis"

Claus Niemann, MD - University of California, San Francisco, "Ischemia Reperfusion Injury During Total Knee Athroplasty: The Impact Of Metabolic Syndrome"

Bernhard Riedel, MB, ChB, FCA, M.Med, FAHA, PhD - The University of Texas MD Anderson Cancer Center, Houston, "Perioperative Endothelial Kinetics - A Predictor Of Outcome Following Major Surgery"

Madhav Swaminathan, MD - Duke University Medical Center, "The Role Of Circulating Progenitor Cells In Renal Outcomes After Cardiac Valve Surgery"

Lisa Wise-Faberowski, MD - University of Colorado Health Sciences Center, "Neurologic Outcome In Infants With Congenital Heart Disease: The Effect Of Anesthetic Agents"

continued...

IARS FRONTIERS IN ANESTHESIA RESEARCH AWARD

"to foster innovation and creativity by an individual researcher in the field of Anesthesiology."

Award value of \$500,000 paid in three to five equal annual installments.

Recipient of the 2007 Frontiers in Anesthesia Award:

Zhiyi Zuo, MD, PhD - University of Virginia Health System - "Neuroprotection by RNA Interference-Produced Autoregulation of Inducible Nitric Oxide Synthase Expression"

IARS 2006 ANESTHESIOLOGY TEACHING RECOGNITION AWARD

The Purpose of this award is to recognize an individual with outstanding teaching skills.

David J. Birnbach, MD, MPH - University of Miami, Miami, Florida. Presentation during Teaching Recognition Award Panel; Sunday, March 25, 2007, 1:00-2:00 p.m.; Great Hall West (See page 25).

Submit your application for the IARS \$80,000 2007 Clinical Scholar Research Awards

Application Deadline: June 4, 2007

Up to five award recipients will be selected for the 2007 award.

Visit www.iars.org for application and guidelines.

IARS NIH Investigator's Symposium
Saturday, March 24, 8:00–4:30 – Islander Room

Jeffrey R. Balsler, MD, PhD

Associate Vice Chancellor for Research
James Tayloe Gwathmey Professor of
Anesthesiology, Medicine, and Pharm.
Vanderbilt University Medical Center
Nashville, Tennessee

Emory Brown, MD, PhD

Department of Anesthesiology and
Critical Care
Mass General Hospital - Harvard
Boston, Massachusetts

Marie Csete, MD, PhD

Associate Professor & John E. Steinhaus
Professor of Anesthesiology
Director, Emory/GaTech Human
Embryonic Stem Cell Core
Co-Director, Emory MD/PhD Program
Director, Liver Transplant Anesthesiology
Emory University Hospital
Atlanta, Georgia

Andreas Hoeft, MD, PhD

Professor and Chairman
Department of Anesthesiology and
Intensive Care Medicine
University of Bonn
Bonn, Germany

Michael Joyner, MD

Professor of Anesthesiology
Department of Anesthesiology
Mayo Clinic
Rochester, Minnesota

James D. Marks, MD, PhD

Professor, Anesthesia and
Pharmaceutical Chemistry
University of California, San Francisco
San Francisco, California

Keith Miller, MD, PhD

Mass General Hospital - Harvard
Boston, Massachusetts

Phil Morgan, MD

Case Western Reserve University
Cleveland, Ohio

Mark F. Newman, MD

Chairman
Department of Anesthesiology
Duke University Medical Center
Durham, North Carolina

Debra Schwinn, MD

James B. Duke Professor of
Anesthesiology
Professor of Pharmacology, Medicine
(Cardiology) & Surgery
Prog. Dir. for Cardiovascular Genomics,
Duke Institute for Genome Sciences
& Policy
Duke University Medical Center
Durham, North Carolina

Richard Smiley, MD, PhD

Chief, Obstetric Anesthesia
Columbia University
New York, New York

Monica Vavilala, MD

Associate Professor of Anesthesiology,
Pediatrics and Neurological Surgery
Department of Anesthesiology
University of Washington
Seattle, Washington

Margaret Wood, MB, ChB

Professor and Chairman
Department of Anesthesiology
Columbia University
New York, New York

Clifford Woolf, MD

Director, Anesthesia and Critical Care
Medicine
Mass General Hospital - Harvard
Boston, Massachusetts

Yan Xu, MD

Professor of Anesthesia and Critical
Care Medicine
University of Pittsburgh
Pittsburgh, Pennsylvania

New for 2007
IARS NIH Investigator's Symposium

This symposium is an initial meeting to encourage social and professional interaction between established, federally-funded investigators in Anesthesiology Departments across the United States.

Specific Aims:

1. To promote scientific cooperation between investigators;
2. To identify areas of future research for the field of Anesthesiology;
3. To identify and/or create successful and individual, departmental and institutional strategies for scientific and funding success in Anesthesiology Departments;
4. To consider establishing this group as a "society" with continuing meetings and communication.

IARS NIH Investigator's Symposium

7:30-8:30 **Continental Breakfast**

8:00-8:15 **Welcome/Introduction**

Debra Schwinn, MD
Richard Smiley, MD, PhD
Monica Vavilala, MD

Today's speakers (and audience participants) will present and discuss some of their science. However, this meeting is not meant to be primarily a forum to discuss only scientific questions or results of specific projects. Throughout the day we hope to present not only good science, but explore questions like "How did you get into that area? What/who helped? What/who hurt or made things more difficult? What would you advise someone else? What would you do differently if you had another chance to start over?" Ultimately it is our goal to answer the burning question, "How do we maintain/increase/improve the scientific underpinnings and opportunities in the field of Anesthesiology over the next generation or two?"

8:15-10:15 **Leading the Way Forward: Research in "New" Directions**

Debra A. Schwinn, MD - Moderator
Emory Brown, MD, PhD
James D. Marks, MD, PhD
Michael Joyner, MD
Marie Csete, MD, PhD

Each speaker will briefly review their path to science, along with a very brief review of their ongoing scientific interests. This session addresses research that anesthesiologists could and/or should be working in and moving into over the next generation (memory, consciousness, altered environments, stem cell research...)

10:15-10:30 **Coffee break**

10:30-12:15 **The Anesthesiology Research "Care Team": Role of PhDs in Anesthesiology Departments**

Yan Xu, MD, PhD
Clifford Woolf, MD, PhD
Keith Miller, MD, PhD

Our speakers are PhD investigators who have functioned as long-term PIs on projects, as well as being leaders within Anesthesiology Departments. They will discuss the future role of PhDs in academic anesthesiology research as well as their role in training physician scientists.

12:15-1:30 **Lunch & Plenary Lecture**

Survival of the Fittest: The Physician Scientist in an Ever-Changing Milieu
Jeffrey R. Balse, MD, PhD

1:30-3:00 **New Training Paradigms: How Do We Nurture and Fund the Next Generation of NIH (and other agency) Funded Researchers?**

CTSA and T32s as a Training Vehicle of the Future
Michael Joyner, MD

Using other Foundations to Pay for Training and Initial Grant Mechanisms
Monica Vavilala, MD

New 5-Year Plan to Combine Residency, Fellowship, and Research (The Morton Society Approach)
Mark F. Newman, MD

Getting Them Early – Success with the "Apgar Scholars" Program
Margaret Wood, MB, ChB

Each speaker will briefly review their new ideas for training anesthesiology researchers of the future, from initial introduction to research through independent success at the NIH level.

3:00-4:30 **Using the Perioperative/ICU Paradigm for Science: How Far Can This Take Us?**

Richard Smiley, MD, PhD
Debra Schwinn, MD
Phil Morgan, MD
Andreas Hoeft, MD, PhD*

The "perioperative perturbation" is an opportunity that can be used to address important questions in medicine, especially as we have the opportunity to examine how chronic diseases (e.g. diabetes, cardiovascular disease) are affected by the stress of the perioperative events. Studies of genomics and other influences on the response of acute and chronic diseases can benefit from the perturbation of the OR or other conditions and environments where anesthesiologists find themselves.

*Designated European researcher perspective for discussion purposes is Professor Andreas Hoeft.

7:30 - 1:00 EXHIBITS – EVENT CENTER

7:30 - 8:00 CONTINENTAL BREAKFAST – EXHIBIT HALL

REVIEW COURSE LECTURES – GREAT HALL NORTH

8:00 - 8:45 R01 THE OPERATING ROOM OF THE FUTURE: CURRENT THINKING AND FUTURE DIRECTIONS

Julian M. Goldman, MD
 Director of Clinical Technology and Biomedical Engineering
 Department of Anesthesia
 Massachusetts General Hospital
 Boston, Massachusetts

Learner Objective: The participant will become familiar with some elements of design and function of new anesthesiology delivery systems, and systems to improve patient information management.

8:50 - 9:35 R02 NEW CONCEPTS IN THE PREVENTION AND TREATMENT OF BLEEDING

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

Learner Objectives: 1) Review components of hemostasis and coagulation essential to clotting, and a current view of the coagulation cascade. 2) Review the both the risks and appropriate uses of transfused banked blood products 3) Discuss strategies to reduce bleeding/transfusions 4) Review of pharmacologic agents utilized in the prevention and treatment of bleeding including Lysine analogs, Aprotinin , DDAVP (desmopressin) , Recombinant Factor VII

9:35 - 10:15 COFFEE BREAK – EXHIBIT HALL

10:15 - 11:00 R03 CARDIAC PRECONDITIONING: CONCEPTS, MECHANISMS, PERSPECTIVES

Michael Zaugg, MD, DEAA*
 Head of the Anesthesia Research Laboratory
 Institute of Anesthesiology
 University of Zurich
 Zurich, Switzerland

Learner Objectives: Participants of this lecture will be able to: 1) understand the concepts of pre- and postconditioning; 2) understand the molecular mechanisms underlying pre- and postconditioning; 3) discuss the clinical applicability.

11:05 - 11:50 R04 CHRONIC PAIN FOR THE NON-PAIN PRACTITIONER

John C. Rowlingson, MD
 Professor of Anesthesiology
 Director/Pain Medicine Services
 Department of Anesthesiology
 University of Virginia Health System
 Charlottesville, Virginia

Learner Objective: The lecture will highlight the differences between acute and chronic pain, present the goals of evaluation and treatment of the patient with chronic pain, describe an evaluation protocol, and discuss treatment principles based upon the management of low back pain as a model.

11:45 – 1:00 LUNCH – EXHIBIT HALL

REVIEW COURSE LECTURES – GREAT HALL NORTH

1:00 - 1:45 R05 NEUROTOXICITY OF GENERAL ANESTHETICS

Gregory Crosby, MD
 Department of Anesthesiology
 Brigham & Women’s Hospital
 Boston, Massachusetts

Learner Objective: This lecture will review evidence for general anesthetic-induced neurotoxicity in the developing and aged brains. The learner will understand the current state of knowledge in this area and appreciate its potential impact on patient care.

1:50 - 2:35 R06 DEPTH OF ANESTHESIA: AWARENESS AND BEYOND

Karen Domino, MD, MPH
 Professor of Anesthesiology and Adjunct Professor of Neurologic Surgery
 Department of Anesthesiology
 University of Washington School of Medicine
 Seattle, Washington

Learner Objectives: After attending the lecture, the participant will: 1) understand the spectrum of depth of anesthesia; 2) understand the incidence and sequelae of intraoperative awareness during general anesthesia; 3) understand the role of brain function monitoring in assessment of depth of anesthesia; 4) understand the recommendations of the ASA advisory on brain function monitoring and intraoperative awareness; and 5) understand the impact of depth of anesthesia monitoring on recovery from anesthesia.

2:30 - 3:00 SODA BREAK – GREAT HALL CENTER

3:00 - 3:45 R07 CHALLENGES IN PEDIATRIC AMBULATORY ANESTHESIA

Linda Mason, MD
 Professor of Anesthesiology and Pediatrics
 Director of Pediatric Anesthesia
 Loma Linda University Medical Center
 Loma Linda, California

Learner Objectives: Upon completion of this lecture, participants will be able to: Identify current anesthetic management strategies for the pediatric outpatient, including management of the child with an upper respiratory tract infection (URI), the child with sleep apnea with criteria for outpatient tonsillectomy and what is the youngest age acceptable for outpatient surgery.

3:50 - 4:35 R08 LIVER TRANSPLANTATION

Marie Csete, MD, PhD
 Associate Professor & John E. Steinhaus
 Professor of Anesthesiology
 Director, Emory/GaTech Human Embryonic Stem Cell Core
 Co-Director, Emory MD/PhD Program
 Director, Liver Transplant Anesthesiology
 Emory University Hospital
 Atlanta, Georgia

Learner Objective: The overall objective is to review the state of the science of clinical research in liver transplant anesthesiology—progress, opportunities, and areas in which no significant recent progress has been made. A review of the systems level physiology of end-stage liver disease will be used to highlight important areas where anesthesiologists can contribute to optimizing the care of liver transplant patients.

PANELS – GREAT HALL EAST

8:00 - 9:30
PL01



SNACC
SOCIETY OF NEUROSURGICAL
ANESTHESIA AND CRITICAL CARE

**SOCIETY FOR NEUROSURGICAL ANESTHESIA AND
CRITICAL CARE (SNACC) - HEAD TRAUMA:
WHERE ARE WE AND WHERE ARE WE GOING?**

Sulpicio Soriano, MD - Moderator
Associate Professor of Anesthesia
Department of Anesthesia
Children's Hospital Boston and Harvard Medical
Boston, Massachusetts

Concezione Tommasino, MD - Moderator
Associate Professor of Anesthesiology and Intensive Care
Institute of Anesthesiology and Intensive Care
Milano, Italy

**WHERE TO TREAT HT PATIENTS: GENERAL VS.
NEUROLOGICAL ICU**

Basil Matta, MB, FRCA
Clinical Director
Perioperative Care Services
Cambridge University Foundation Trust Hospital
Cambridge, United Kingdom

Learner Objective: In this lecture, I will provide a brief synopsis of the current management of head trauma victims. I will review the basic pathophysiology, with emphasis on preventing secondary injury, and the current available evidence for adopting a management algorithm. I will then touch on potential future therapies that may have an influence on outcome.

PEDIATRIC HEAD TRAUMA

Monica Vavilala, MD
Associate Professor of Anesthesiology, Pediatrics and
Neurological Surgery (Adj)
Department of Anesthesiology
University of Washington
Seattle, Washington

Learner Objectives: This lecture will review: 1) The factors that predispose to poor outcome after pediatric traumatic brain injury; 2) To review the Brain Trauma Foundation Guidelines for the management of severe pediatric traumatic brain injury; 3) To review the anesthetic considerations of the child with traumatic brain injury.

CAN WE IMPROVE HT PATIENT OUTCOME?

Cornelius J. Kalkman, MD, PhD
Professor of Anesthesiology
Division of Perioperative Medicine & Emergency Medicine
University Medical Center Utrecht
Utrecht, The Netherlands

Learner Objectives: To provide an overview of current controversies regarding optimal treatment of the patient with traumatic brain injury. Issues covered are: is current management of cerebral perfusion pressure evidence-based™? What is the status of therapeutic hypothermia for patients with TBI? Are there any promising pharmacologic neuroprotective strategies?

PANELS – GREAT HALL EAST

10:15 - 11:45
PL02

ULTRASOUND IN ANESTHESIOLOGY

Ken Johnson, MD*
Assistant Professor, Learned Family Associate Professorship
Director, Center for Human Simulation
Department of Anesthesiology
University of Utah
Salt Lake City, Utah

Jeffrey Swenson, MD
Professor of Anesthesiology
Director of Anesthesia
Department of Anesthesiology
University of Utah Orthopaedic Center
Salt Lake City, Utah

Learner Objectives: 1) Review developments in ultrasound technology and in clinical use of ultrasound that impact perioperative patient care. 2) Discuss important limitations and key features of optimizing ultrasound images for clinical use. 3) Provide an update on new approaches to nerve block placement with the use of ultrasound. 4) Discuss emerging data regarding the impact of ultrasound guidance on block effectiveness, cost, and time to place blocks. ultrasound images for clinical use.

1:00 - 2:30
PL03

**THE PATIENT WITH LIVER DISEASE FOR NON-
HEPATIC SURGERY**



Liver Intensive Care
Group of Europe

Randy Steadman, MD - Moderator
Associate Professor of Clinical Anesthesiology
Department of Anesthesiology
UCLA School of Medicine
Los Angeles, California

**DISEASE BURDEN AND PATHOPHYSIOLOGY-
IMPLICATION FOR THE PERIOPERATIVE PERIOD**

Simon Gelman, MD, PhD, FANZCA
Chairman Emeritus
Brigham & Women's Hospital
Leroy D. Vandam/Benjamin G. Covino Distinguished
Professor of Anesthesia, Harvard Medical School
Department of Anesthesiology
Boston, Massachusetts

**PERIOPERATIVE MANAGEMENT OF PATIENTS
WITH LIVER DISEASE**

Manuel Pardo, Jr., MD
Sol Shnider Endowed Chair for Anesthesia Education
Associate Professor of Clinical Anesthesia
Department of Anesthesia and Perioperative Care
University of California, San Francisco
San Francisco, California

CASE STUDIES

Zoltan Hevesi, MD
Director of Transplant Anesthesia
Associate Professor
Departments of Anesthesiology and Surgery
University of Wisconsin
Madison, Wisconsin

Learner Objectives: Describe preoperative risk assessment in the patient with chronic liver disease. Describe the effects of anesthetics on hepatic blood flow. Discuss principles of anesthetic management in the patient with chronic liver disease. Discuss potential postoperative complications in the patient with chronic liver disease

SATURDAY, MARCH 24

PANELS – GREAT HALL EAST

3:00 - 4:30 **ADVERSE DRUG REACTIONS (ADRS):**
PL04 **IMPLICATIONS FOR THE ANESTHESIOLOGIST**

ARE PATIENTS REALLY ALLERGIC TO ANESTHETIC DRUGS?

François Donati, PhD, MD, FRCPC

Professor
 Department of Anesthesia
 Université de Montreal
 Montreal, Quebec, Canada

Learner Objective: The learner will know the principal causes of severe allergic reactions in the operating room.

LIFE THREATENING ADRS: WHAT SHOULD ANESTHESIOLOGISTS KNOW?

Jerrold H. Levy, MD

Professor of Anesthesiology
 Deputy Chair for Research
 Emory University School of Medicine
 Director, Cardiothoracic Anesthesiology
 Emory Healthcare
 Atlanta, Georgia

CAN ADRS BE PREVENTED?

Peter Sebel, MB BS, PhD, MBA*

Professor and Vice Chair
 Department of Anesthesiology
 Emory University School of Medicine
 Atlanta, Georgia

Learner Objective: To understand how to avoid adverse drug reaction in the clinical environment.

PANELS – GREAT HALL WEST

8:00 - 9:30 **O.R. MANAGEMENT**
PL05 **Patricia A. Kapur, MD**

Professor and Chair
 Department of Anesthesiology
 University of California, Los Angeles School of Medicine
 Los Angeles, California

Learner Objective: Attendees will learn from an experienced panel of O.R. management experts about the key contemporary issues of evaluating turnover times to optimize your O.R. throughput and staffing, negotiating with management and O.R. stakeholders to obtain and utilize resources wisely, and insights from having outside consultant eyes look at your O.R. that you thought you knew so well. The panel members will allow a generous Q&A period for attendees to bring up O.R. management issues they are facing for open discussion with the panelists and the other knowledgeable audience members.

PRIMER ON NEGOTIATIONS

David Lubarsky, MD, MBA

Chairman
 Department of Anesthesiology
 University of Miami
 Miami, Florida

SCIENCE OF TURNOVER TIMES

Franklin Dexter, MD, PhD

Director
 Division of Management Consulting
 Department of Anesthesia
 University of Iowa
 Iowa City, Iowa

Learner Objectives: Reducing turnover times can increase O.R. efficiency on the day of surgery by reducing over-utilized O.R. time. However, the effect is exquisitely sensitive to the OR allocations. In addition, O.R.s must have at least eight hours of cases per O.R. per day.

There is not an economic case for reducing turnover times in order to perform additional cases, because if an organization focused on economics, it would do the case regardless of whether turnover times were reduced.

Attention to reducing turnover times should focus not just on setup and cleanup times, but also on the frustrating prolonged turnovers.

MODERATED POSTER DISCUSSION ROUNDS GREAT HALL CENTER POSTERS DISPLAYED 8:00 - 4:30

Discussion Time: 8:00 - 9:30	Page
Pharmacology - Basic Science (1)	16
Pharmacology - Basic Science (2)	16
Pharmacology - Basic Science (3)	17

Discussion Time: 10:15 - 11:45	Page
Bleeding	17
Pediatric Anesthesia	18
Ambulatory Anesthesia	18

Discussion Time: 1:00 - 2:30	Page
Cardiothoracic & Vascular-Basic Science (Physiology)	19
Cardiothoracic & Vascular-Basic Science (Myocardial Protection)	19
Cardiothoracic & Vascular-Basic Science (Inflammation)	20

Discussion Time: 3:00 - 4:30	Page
Pain - Basic Science	20
Pain - Clinical - Acute (1)	21
Pain - Clinical - Acute (2)	21
Pain - Clinical - Chronic	22

PANELS – GREAT HALL WEST

10:15 - 11:45 **SOCIETY FOR TECHNOLOGY IN ANESTHESIA**
 PL06 **(STA) SESSION: WILL NEW ANESTHESIA
 TECHNOLOGY CHANGE YOUR PRACTICE?**



**CAN NETWORKING OUR MEDICAL DEVICES
 IMPROVE PATIENT SAFETY AND EFFICIENCY?**

Julian M. Goldman, MD
 Director of Clinical Technology and Biomedical Engineering
 Department of Anesthesia
 Massachusetts General Hospital
 Boston, Massachusetts

**SHOULD WE EXTEND CAPNOGRAPHY OUTSIDE
 THE O.R.?**

Michael Jopling, MD
 Adjunct Assistant Professor
 Department of Anesthesiology
 Ohio State University
 Columbus, Ohio

**THE MODERN ANESTHESIA VENTILATOR: NEW
 CARE PARADIGM OR GIZMO?**

Jeffrey Feldman, MD, MSE
 Associate Professor Clinical Anesthesiology
 University of Pennsylvania School of Medicine
 Division Chief, General Anesthesia
 Children's Hospital of Philadelphia
 Philadelphia, Pennsylvania

1:00 - 2:30 **COCHRANE PANEL: EVIDENCE-BASED MEDICINE**
 PL07 **- DISSEMINATION OF KNOWLEDGE**

**IMPLEMENTATION OF EVIDENCE – PROBLEMS
 AND HOW TO OVERCOME THE BARRIERS**

Ann Møller, MD
 Consultant Anaesthetist
 Department of Anesthesiology
 Herlev University Hospital
 Herlev, Denmark

Learner Objective: To give basic principles of evidence based medicine and to explore the possibilities and difficulties of getting research finding into clinical practice. The role of the paper journals opposed to electronic publication will be discussed as well as the impact of evidence based medicine on health economics and vice versa.

**THE ROLE OF PAPER JOURNALS IN THE
 DISSEMINATION OF RESULTS FROM SYSTEMATIC
 REVIEWS**

Adrian W. Gelb, MB, ChB
 Professor
 Department of Anesthesiology
 University of California, San Francisco
 San Francisco, California

**THE IMPACT OF EVIDENCE-BASED MEDICINE ON
 HEALTH ECONOMICS**

Thomas Pedersen, MD
 Department of Anesthesiology
 Concord Hospital
 Concord, New Hampshire

Learner Objective: Evidence-Based Economics

PANELS – GREAT HALL WEST

3:00 - 4:30 **BRAIN MONITORING DURING ANESTHESIA**
 PL08

Karen Domino, MD, MPH - Moderator

NUTS AND BOLTS OF BRAIN FUNCTION MONITORS

Steven Barker, MD, PhD
 Professor and Chair
 Department of Anesthesiology
 University of Arizona
 Tucson, Arizona

Learner Objective: The objective of this talk is to promote an understanding of the basic operating principles of various cerebral function (processed EEG) monitors that are available today. The speaker will highlight differences between current EEG monitors, and the implications of these differences in assessing both anesthetic depth and risk of awareness. The limitations of EEG monitoring will also be addressed.

**LIMITATIONS OF PROCESSED EEG MONITORING
 DURING ANESTHESIA**

James W. Sleigh, MBChB, FANZCA
 Professor of Anesthesiology and Intensive Care
 Medical and Health Sciences, University of Auckland
 Waikato Clinical School
 Waikato Hospital
 Hamilton, New Zealand

**INTRAOPERATIVE AWARENESS: CAN IT BE
 PREVENTED BY BRAIN FUNCTION MONITORING?**

Karen Domino, MD, MPH
 Professor of Anesthesiology and Adjunct Professor of
 Neurologic Surgery
 Department of Anesthesiology
 University of Washington School of Medicine
 Seattle, Washington

**DOES DEEP ANESTHESIA INCREASE MORTALITY
 AND COGNITIVE DYSFUNCTION?**

Cornelius J. Kalkman, MD, PhD
 Professor of Anesthesiology
 Division of Perioperative Medicine & Emergency Medicine
 University Medical Center
 Utrecht, The Netherlands

Learner Objectives: After attending this panel, participants will understand 1) the basics of brain function monitoring; 2) limitations of processed EEG monitoring during anesthesia; 3) uses of brain function monitoring to reduce the risk of intraoperative awareness; and 4) controversies with deep anesthesia, including mortality and postoperative cognitive dysfunction.

**SIMULATION IN ANESTHESIA WORKSHOP – W01
8:00 - 10:00 – KNIGHTS HALL**

Please note that **Workshops** will have limited attendance and are available to registrants on a **first-come, first-served basis**. **There is a non-refundable \$50.00 registration fee to attend each workshop.**

**Simulation in Anesthesia – The Future of Medical Education
W01**

Talk to most people and they say simulation is a great idea. Just like a diet is a great idea! But actually going on a diet and sticking with it, that's a different story. And actually incorporating simulator training into our anesthesia world and sticking with it, that's a different story too. The workshop is centered around a realistic hands-on interactive simulation session including anesthesia residents and simulation instructors. We will run a realistic anesthesia crisis scenario which will require a full team of anesthesia providers and back-up to participate to resolve the crisis, followed by an audience driven debrief. We will explore the role of simulation in anesthesia practice and look at simulation's birthing pains and where we go next with this promising, but troubling new gizmo.

Paul Barach, MD
Associate Professor
Department of Anesthesia
College of Medicine and Public
Health
University of South Florida
Miami, Florida

Eduardo Salas, MD
Professor
Department of Psychology
University of Central Florida
Orlando, Florida

Ruben J. Azocar, MD
Assistant Professor
Residency Program Director
Director, Clinical Simulator
Center
Department of Anesthesiology
Boston University School of
Medicine
Boston, Massachusetts

Thank you to the following residents for their assistance with the workshop:

Dr. Ed Kosik; Case Western Reserve/MetroHealth, Cleveland, Ohio

Dr. Genevieve D'souza; Thomas Jefferson University, Philadelphia, Pennsylvania

Dr. Christine Mai; Boston University Medical Center, Boston, Massachusetts

Learner Objectives:

- 1) Participate in state-of-the-art simulation team training.
- 2) Experience a team training exercise that promotes patient safety.
- 3) Learn about how team training and simulation can make you a safer and more reflective provider.
- 4) Learn about how to start your own simulation-training program including how to master the art of debriefing.

**See workshop equipment sponsor
listing on page 32.**

**ULTRASOUND GUIDED VASCULAR ACCESS
WORKSHOP – W02
2:30 - 4:30 – KNIGHTS HALL**

Please note that **Workshops** will have limited attendance and are available to registrants on a **first-come, first-served basis**. **There is a non-refundable \$50.00 registration fee to attend each workshop.**

W02

1. Introduction to physics of ultrasound brief principles of ultrasonography, types of transducers and their advantages (15 minutes) – **Ken Johnson, MD**
2. Introduction to ultrasound guided vascular access procedures (40 minutes) – **NavParkash S. Sandhu, MD**

NavParkash S. Sandhu, MD
Associate Clinical Professor
University of California , San Diego
San Diego, California

Levon M. Capan , MD
Professor of Anesthesiology
New York University School of Medicine
New York, New York

Christopher Kent, MD
Assistant Professor
University of Washington
Seattle, Washington

Ken Johnson, MD*
Assistant Professor, Learned Family Associate Professorship
Director, Center for Human Simulation
Department of Anesthesiology
University of Utah
Salt Lake City, Utah

Susan T. Verghese, MD
Director of Cardiac Anesthesia
Children's National Medical Center
Professor of Anesthesiology and Pediatrics
The George Washington University Medical Center
Washington, District of Columbia

Deepal Sidhu, MD
Instructor
Massachusetts General Hospital
Boston, Massachusetts

Stations:

1. CVC using ultrasound: IJ, Axillary and femoral
2. Arterial cannulation using ultrasound: radial, femoral, axillary and other Arteries
3. Peripheral venous cannulation: basilica and cephalic veins, long saphenous veins.
4. Ultrasound guided vascular access in children and infants (**Susan Verghese, MD**)
5. Knobology and practice on phantoms.

**SATURDAY, MARCH 24 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Pharmacology – Basic Science (1)

Abstracts in Poster Discussion Round: S-209 – S-216

Presenters in attendance 8:00 – 9:30

PR01-1

Poster Moderators:

James G. Bovill, MD, PhD, FCARCSI; Leiden University Medical Center, Leiden, The Netherlands

Jerome Parness, MD; Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania

Learner Objective: To understand advances in pharmacology.

*** S-209 ACTIVATING THE THALAMIC CONSCIOUSNESS SWITCH:
** THALAMIC MICROINJECTION OF NICOTINE REVERSES
SEVOFLURANE-INDUCED UNCONSCIOUSNESS IN THE RAT**

M. T. Alkire, J. McReynolds;

University of California, Irvine, Orange, California

**S-210 THE AGE-DEPENDENT EFFECTS OF ISOFLURANE ON
NMDA RECEPTOR SUBUNIT COMPOSITION**

S. Rich, P. Robinson, L. Wise-Faberowski;

Indiana University, Indianapolis, Indiana and University of Colorado, Denver, Colorado

**S-211 NMDA RECEPTOR SUBUNIT COMPOSITION: A FUNCTION
OF DEVELOPMENTAL AGE**

P. Robinson, S. Rich, L. Wise-Faberowski;

University of Colorado, Denver, Colorado and Indiana University, Indianapolis, Indiana

**S-212 HIPPOCAMPAL MRNA LEVELS OF THE PLASTICITY
RELATED IMMEDIATE-EARLY GENE ARC ARE NOT
SUPPRESSED BY AN AMNESIC DOSE OF SEVOFLURANE IN
THE RAT**

T. Beydoun, T. Miyashita, J. McReynolds, J. Guzowski, M. T. Alkire;

University of California, Irvine, Orange, California

***** S-213 TOWARD THE MECHANISM OF ANESTHETIC-INDUCED
AMNESIA: ANESTHETICS SHUT DOWN MEMORY
CONSOLIDATION BY INHIBITING HIPPOCAMPAL ARC-
PROTEIN SYNTHESIS IN THE RAT.**

M. T. Alkire, T. Beydoun, T. Miyashita, J. McReynolds, J. Guzowski;

University of California, Irvine, Orange, California

Disclosure: Grants/Research Support - NIH RO1GM65212; MH060123-to-JG

**S-214 THE EFFECTS OF VOLATILE ANESTHETICS ON THE
INDUCTION OF LONG-TERM POTENTIATION IN THE
MOUSE HIPPOCAMPUS.**

K. Nishikawa, J. Ishizeki, K. Kubo, H. Arai, S. Saito, F. Goto;

Gunma University Graduate School of Medicine, Maebashi, Japan and Ashikaga Red Cross Hospital, Ashikaga, Japan

**S-215 EFFECTS OF PROPOFOL ON PHOSPHORYLATION OF
GLUTAMATE AMPA RECEPTORS IN RAT STRIATAL
NEURONS**

M. Haines, G. Zhang, A. Arora, L. Mao, E. E. Fibuch, J. Q. Wang;

University of Missouri-Kansas City School of Medicine, Kansas City, Missouri

**S-216 MOLECULAR ANALYSIS OF ALPHA2A AND ALPHA2C
ADRENERGIC RECEPTORS IN CULTURED MOUSE
SYMPATHETIC NEURONS**

P. Brum, C. Hurt, O. Shcherbakova, B. Kobilka, T. Angelotti;

Stanford University, Stanford, California

*Best of Meeting

**Best of Section

***Kosaka Session

Pharmacology – Basic Science (2)

Abstracts in Poster Discussion Round: S-217 – S-224

Presenters in attendance 8:00 – 9:30

PR01-2

Poster Moderators:

Tong J. Gan, MB, BS, FRCA*; Duke University Medical Center, Durham, North Carolina

Michel Struys, MD, PhD; University of Ghent, Ghent, Belgium

Learner Objective: To understand advances in pharmacology.

**S-217 TITRATED DOBUTAMINE REVERSES THE VASOPRESSIN-
ASSOCIATED IMPAIRMENT IN CARDIAC INDEX AND
SYSTEMIC OXYGEN SUPPLY IN OVINE ENDOTOXEMIA.**

C. Ertmer, A. Morelli, H. G. Bone, H. Van Aken, M. Lange, M. Westphal;

University of Münster, Münster, Germany and University of Roma La Sapienza, Roma, Italy

**S-218 ENHANCEMENT OF ALPHA2C ADRENERGIC RECEPTOR
SURFACE EXPRESSION BY REEP FAMILY MEMBERS**

C. Hurt, S. Bjoerk, B. Kobilka, T. Angelotti;

Stanford University, Stanford, California

***** S-219 LIDOCAINE MODULATES VOLTAGE-GATED PROTON
CHANNELS IN RAT MICROGLIA**

T. Mori, M. Kuno, M. Nakanishi, K. Nishikawa, M. Sawada, A. Asada;

Osaka City University Graduate School of Medicine, Osaka, Japan, and Nagoya University, Nagoya, Japan

**S-220 VERIFICATION OF THE TISSUE ACIDIFICATION
HYPOTHESIS FOR LOCAL ANESTHETIC FAILURE
ASSOCIATED WITH ACUTE INFLAMMATION**

T. Ueno, H. Tsuchiya, M. Mizogami, K. Takakura;

Asahi University School of Dentistry, Mizuho, Japan

**S-221 LIDOCAINE ACTIVATES DIHYDROETHIDIUM -
IMPLICATIONS FOR FLOW CYTOMETRY**

A. Ploppa, M. E. Durieux;

UVA Health System, Charlottesville, Virginia

**S-222 LIDOCAINE INHIBITS DEPHOSPHORYLATION OF BRAIN
SODIUM CHANNEL NAV 1.2 BY PROTEIN PHOSPHATASE-1**

H. Hemmings, D. Zachary, H. Tung;

Weill Cornell Medical College, New York, New York

**S-223 TIME-DEPENDENT INHIBITION OF NEUTROPHIL
PHAGOCYTOSIS BY LIDOCAINE**

A. Ploppa, M. E. Durieux;

University of Tuebingen, Tuebingen, Germany and UVA Health System, Charlottesville, Virginia

**S-224 QUANTITATIVE ANALYSIS OF APOPTOTIC RESPONSES TO
A-EPO AFTER ISCHEMIC BRAIN INJURY.**

C. D. Price, R. Chaparro, D. Coppola, C. Knop, H. Schweiger;

E. M. Camporesi;

University of South Florida, Tampa, Florida

***Kosaka Session

**SATURDAY, MARCH 24 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Pharmacology – Basic Science (3)

**Abstracts in Poster Discussion Round: S-225 – S-231
Presenters in attendance 8:00 – 9:30 (note time)**

PR01-3

Poster Moderators:

Deborah Culley, MD; Brigham & Women's Hospital; Boston, Massachusetts
Enis Novalija, MD; Medical College of Wisconsin, Milwaukee, Wisconsin

Learner Objective: To understand advances in pharmacology.

**S-225 SYSTEMIC BLOCKADE OF 5-HYDROXYTRYPTAMINE_{2A},
2B, 2C RECEPTORS DECREASES SEVOFLURANE MINIMUM
ALVEOLAR CONCENTRATION IN RATS**

T. Oshima, H. Nagatani, A. Urano, Y. Hasegawa, Y. Nakata, Y. Saitoh;
Teikyo University School of Medicine, Tokyo, Japan

**S-226 INHALATION OF CARBON MONOXIDE IMPROVES
MICROCIRCULATION AND INHIBITS EARLY
INFLAMMATION AFTER PANCREATIC
ISCHEMIA/REPERFUSION IN RATS**

*R. Schmidt, M. Scholtes, U. T. Hopt, K. K. Geiger, E. von
Dobschuetz, B. H. Pannen;*
University Hospital Freiburg, Freiburg, Germany

**S-227 ACTIVE GLUCURONO-CONJUGATED MOLECULES CAN BE
PRODUCED IN LARGE AMOUNTS FROM PORCINE URINE
EXTRACTION**

S. Bonavaud, P. Neuville, J. Leroy, P. A. Diemunsch;
*Faust Pharmaceuticals, Strasbourg-Illkirch, France and IRCAD-
University Hospital, Strasbourg, France*

**S-228 COBALT PROTOPORPHYRIN TREATMENT INDUCES
PANCREATIC HEME OXYGENASE-1 THEREBY IMPROVING
MICROVASCULAR BLOOD FLOW AFTER
ISCHEMIA/REPERFUSION IN RATS**

*R. Schmidt, E. von Dobschuetz, M. Scholtes, U. T. Hopt, K. K.
Geiger, B. H. Pannen;*
University Hospital Freiburg, Freiburg, Germany

**S-229 THIOPENTAL PROTECTS HUMAN T LYMPHOCYTES FROM
APOPTOSIS VIA EXPRESSION OF HEAT SHOCK PROTEIN 70
IN VITRO.**

*M. Roesslein, D. Schibilsky, K. K. Geiger, H. L. Pahl, B. H.
Pannen, T. Loop;*
University Hospital Freiburg, Freiburg, Germany

**S-230 EFFECTS OF RHO-KINASE INHIBITORS ON ANESTHETICS-
INDUCED RELAXATION OF RAT BRONCHIAL SMOOTH
MUSCLE**

*M. Hanazaki, M. Yokoyama, K. Morita, A. Kohjitani, Y. Chiba, M.
Misawa;*
*Okayama University Graduate School of Medicine, Dentistry and
Pharmaceutical Sciences, Okayama, Japan and Hoshi University,
Tokyo, Japan*

**S-231 APROTININ INFLUENCES DISPARATE MECHANISMS TO
EFFECT LV CONTRACTILITY AND CYTOKINE ACTIVATION
IN I/R**

*M. D. McEvoy, A. B. Taylor, J. A. Zavadzka, I. M. Mains, R. E.
Stroud, S. T. Reeves;*
Medical University of South Carolina, Charleston, South Carolina
Disclosure: Grants/Research Support - Bayer Pharmaceuticals
Research Fellowship

Bleeding

**Abstracts in Poster Discussion Round: S-9 – S-16
Presenters in attendance 10:15 – 11:45 (note time)**

PR01-4

Poster Moderators:

Nancy A. Nussmeier, MD; Upstate Medical University, Brooklyn, New York
Sugantha Sundar, MD; Harvard Medical Center, Boston, Massachusetts

Learner Objective: To understand recent advances related to the conservation of blood and blood products.

* **S-9 SIMILARITY OF BRAIN BLOOD FLOW RESPONSES DURING
** HEMODILUTION WITH TWO PERFLUORO-CHEMICAL
SUBSTITUTIONS**

*R. Chaparro, C. D. Price, B. Williams, W. Nel, D. Mangar, E. M.
Camporesi;*
University of South Florida, Tampa, Florida

S-10 APROTININ USE IN COMPLEX ADULT SPINAL DEFORMITY

*G. O. Okubadejo, C. C. Lee, K. H. Bridwell, L. G. Lenke, C. R.
Baldus, C. H. Nielsen;*
Washington University School of Medicine, St. Louis, Missouri

**S-11 ANESTHETIC MANAGEMENT OF ROBOTIC ASSISTED
LAPAROSCOPIC RADICAL PROSTATECTOMIES**

R. D'Alonzo, A. Habib, T. Gan;
Duke University Medical Center, Durham, North Carolina

**S-12 PRE-OPERATIVE FACTORS ASSOCIATED WITH BLOOD
PRODUCT TRANSFUSION IN ORTHOTOPIC LIVER
TRANSPLANTATION USING THE PIGGYBACK
HEPATECTOMY TECHNIQUE: A REGRESSION ANALYSIS**

*M. M. Nobari, R. S. Mangus, S. Kinsella, J. A. Fridell, R. M.
Vianna, A. Tector;*
Indiana University, School of Medicine, Indianapolis, Indiana

**S-13 THROMBIN TIME WITH THROMBELASTOGRAPHY IS
USEFUL FOR EVALUATION OF ANTICOAGULANT EFFECTS
OF DIRECT AND INDIRECT THROMBIN INHIBITORS**

T. Taketomi, F. Szlam, J. H. Levy, K. A. Tanaka;
Emory University, Atlanta, Georgia

**S-14 PREOPERATIVE PLATELET DYSFUNCTION IN LIVER
TRANSPLANT RECIPIENTS**

*E. G. Pivalizza, C. DuPont, S. I. Abramson, A. E. Sharkey, V.
Melnikov, N. C. Lam;*
University of Texas Houston, Houston, Texas

**S-15 NEW THERAPEUTIC STRATEGY FOR MASSIVE
PULMONARY THROMBOEMBOLISM. (FIVE CASES TREATED
WITH PERCUTANEOUS TRANSLUMINAL ASPIRATION
UNDER PERCUTANEOUS CARDIOPULMONARY SUPPORT)**

K. Dote, M. Yano, A. Hida, T. Nagaro;
Ehime University Hospital, Touon, Ehime, Japan

**S-16 PLATELET STORAGE POOL DEFICIENCY DURING
PREGNANCY AND REGIONAL ANESTHESIA**

B. F. Witte, R. Small, P. Samuels;
The Ohio State University, Columbus, Ohio

*Best of Meeting

**Best of Section

**SATURDAY, MARCH 24 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Pediatric Anesthesia

**Abstracts in Poster Discussion Round: S-201 – S-208
Presenters in attendance 10:15 – 11:45**

PR01-5

Poster Moderators:

Helen V. Lauro, MD; SUNY-Downstate Medical Center, Brooklyn, New York
Susan T. Verghese, MD; Children's National Medical Center, Washington, District of Columbia

Learner Objective: To understand selected advances in pediatric anesthesia.

**** S-201 SEVOFLURANE PROTECTION DURING BRAIN ISCHEMIA IN NEONATAL MICE IS SUSTAINED INTO ADULTHOOD**

A. W. Loepke, E. Albers, L. Miles, J. C. McCann, B. Joseph, C. Vorhees;
Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio

S-202 USE OF A HANDHELD VIDEO GAME PRIOR TO PEDIATRIC ANESTHESIA: EFFECTS ON EMERGENCE DELIRIUM AND POSTOPERATIVE PAIN

A. Patel, C. Schoenberg, T. Schieble, H. L. Bennett;
UMDNJ, Newark, New Jersey

S-203 THE EFFECT OF HYPOXIA ON THE DEVELOPING BRAIN: A FUNCTION OF AGE

L. Wise-Faberowski, P. Robinson, D. Warner;
University of Colorado, Denver, Colorado and Duke University Medical Center, Durham, North Carolina

S-204 COMPARISON OF CONVENTIONAL BALANCED GENERAL ANESTHESIA VERSUS PROPOFOL BASED TOTAL INTRAVENOUS ANESTHESIA FOR VITREORETINAL SURGERY IN CHILDREN

A. Chhabra, M. Dehran, R. Subramaniam, R. K. Panigrahi, S. P. Garg;
All India Institute of Medical Sciences, New Delhi, India and Dr. Rajendra Prasad Center for Ophthalmic Sciences

S-205 VIDEO-BRONCHOSCOPIC COMPUTER-ASSISTED ANALYSIS OF GLOTTIC AND CRICOID DIMENSIONS: IS CRICOID THE NARROWEST PART OF THE PEDIATRIC AIRWAY?

P. G. Dalal, J. McAllister, A. Feng, D. Molter, R. Snider, D. Murray;
Penn State Milton Hershey Medical Center, Hershey, Pennsylvania; Washington University School of Medicine, St Louis, Missouri and Kaiser Foundation Hospital, Oakland, California
Disclosure: Other Financial - Coauthored book - Essentials of Airway Management, Cambridge University Press. Receiving Royalties for the same.

S-206 VALIDATION OF THE PEDIATRIC EMERGENCE DELIRIUM SCALE

C. Lin, J. Sobol, C. Galiza, S. Lo, M. Carson, L. Sun;
Columbia University, New York, New York

S-207 THE EFFECTS OF "VIRTUAL" PARENTAL PRESENCE ON THE POST-ANESTHETIC EXPERIENCE OF CHILDREN

R. T. Foley, M. Trinh, T. W. Miu, J. R. Woo, D. B. Glick;
University of Chicago, Chicago, Illinois

S-208 SUBSPECIALTY IMPACT FACTORS: CONTRIBUTION OF PEDIATRIC ANESTHESIA ARTICLES

R. Ramsdell, J. Lerman;
Women and Children's Hospital of Buffalo and SUNY at Buffalo, Buffalo, New York

**Best of Section

Ambulatory

**Abstracts in Poster Discussion Round: S-1 – S-8
Presenters in attendance 10:15 – 11:45**

PR01-6

Poster Moderators:

Raafat S. Hannallah, MD; Children's National Medical Center, Washington, District of Columbia
Anupama Wadhwa, MD; University of Louisville, Louisville, Kentucky

Learner Objective: To understand recent advances in the management of pain in the ambulatory setting.

**** S-1 PROPENSITY FOR OBSTRUCTIVE SLEEP APNEA AND PERIOPERATIVE OUTCOME IN AN AMBULATORY SURGICAL POPULATION**

T. L. Stierer, D. Cohen, C. Wright, A. George, C. Wu, R. H. Brown;
Johns Hopkins Medical Institutions, Baltimore, Maryland and Johns Hopkins School of Public Health, Baltimore, Maryland
Disclosure: Grants/Research Support -Supported in part by the IARS 2005 Clinical Scholar Research Award.

S-2 INTRAOPERATIVE METHADONE SUPERIOR TO FENTANYL FOR POST-DISCHARGE PAIN IN AMBULATORY SURGICAL PATIENTS

B. Sweitzer, K. Tomfohrde, M. Drum, Z. Zafirova;
University of Chicago, Chicago, Illinois

S-3 IMPACT OF PERSISTENT POSTOPERATIVE PAIN ON THE QUALITY OF RECOVERY FOLLOWING AMBULATORY SURGERY

R. W. Goy, E. H. Liu, F. G. Chen, S. Y. Chan, S. C. Li;
National University Hospital, Singapore, Singapore

S-4 EVALUATING THE ANALGESIC EFFICACY OF CELECOXIB AS A COMPONENT OF MULTIMODAL ANALGESIA FOR OUTPATIENT ACL SURGERY

D. Charron, S. S. Reuben, E. F. Ekman;
Baystate Medical Center, Springfield, Massachusetts and Southern Orthopaedic Sports Medicine, Columbia, South Carolina
Disclosure: Grants/Research Support - Pfizer, Inc.

S-5 Withdrawn

S-6 LAVENDER OIL ALLEVIATES POSTOPERATIVE PAIN IN MORBIDLY OBESE PATIENTS UNDERGOING LAPAROSCOPIC GASTRIC BANDING

J. T. Kim, S. Daley, M. Wajda, A. Pitti, C. J. Ren, A. Bekker;
New York University School of Medicine, New York, New York

S-7 DOES COCAINE ABUSE ALTER ANESTHETIC REQUIREMENTS IN HUMANS?

B. O. Ogunnaiké, G. E. Hill, J. E. Forestner, J. H. Thomas;
University of Texas Southwestern Medical Center, Dallas, Texas

S-8 PRE-OXYGENATION ROLE ON HEMODYNAMIC STABILITY AND OXYGEN SATURATION DURING ELECTROCONVULSIVE THERAPY

R. Spatz, M. Fam, J. Thomas, V. Chidambaram, A. Santos, R. Michael;
The Brookdale University Hospital Medical Center, Brooklyn, New York

**Best of Section

**SATURDAY, MARCH 24 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

**Cardiothoracic & Vascular – Basic Science (Physiology)
Abstracts in Poster Discussion Round S-17 – S-24
Presenters in attendance 1:00 – 2:30**

PR01-7

Poster Moderators:

Beatrice Beck-Schimmer, MD; Institute of Anesthesiology, Zurich, Switzerland
Mark A. Gerhardt, MD, PhD; Ohio State University, Columbus, Ohio

Learner Objective: To understand recent physiological advances in cardiothoracic anesthesia.

- *** S-17 **MECHANISMS BEHIND THE ACTION OF ETOMIDATE ON VASCULAR REACTIVITY IN ISOLATED RAT MESENTERIC RESISTANCE ARTERIES**
K. Shirozu, T. Akata, J. Yoshino, H. Setoguchi, K. Morikawa, S. Takahashi;
Kyushu University Hospital, Fukuoka, Japan
- S-18 **RESISTANCE TO HIGH CO₂ IN NAKED MOLE-RATS, ANIMALS THAT NATURALLY LACK VASOACTIVE NEUROPEPTIDES FROM THEIR RESPIRATORY TRACT**
C. E. Laurito, D. J. Visintine, R. D. Minshall, P. Suppatkul, T. J. Park;
University of Illinois at Chicago, Chicago, Illinois
- S-19 **NEGATIVE INOTROPIC EFFECTS OF NATRIURETIC PEPTIDES ARE ATTENUATED IN ISOLATED MYOCYTES FROM THYROXINE-INDUCED HYPERTROPHIC HEARTS IN RABBITS**
J. Tse, H. R. Weiss, M. Meyer, Q. Zhang, K. Khurana, P. M. Scholz;
UMDNJ-Robert Wood Johnson Medical School, New Brunswick, New Jersey
- S-20 **THE LECTIN-LIKE DOMAIN OF THROMBOMODULIN GOVERNS VENTRICULAR REMODELLING IN AFTERLOAD-INDUCED HYPERTROPHY IN MICE**
H. Gillmann, C. Herzog, J. Larmann, E. M. Conway, G. Theilmeier, A. U. Swintek;
University of Münster, Münster, Germany and CMVB-CTG, KU Leuven, Leuven, Belgium
- S-21 **SUPERIOR LOGISTIC FITTING FOR DECAY OF CA²⁺ TRANSIENT IS INDEPENDENT OF ONSET IN MURINE LEFT VENTRICULAR PAPILLARY MUSCLE**
J. Mizuno, M. Otsuji, Y. Yamada, H. Arita, K. Hanaoka, S. Kurihara;
The University of Tokyo, Tokyo, Japan and The Jikei University School of Medicine, Tokyo, Japan
- S-22 **STROKE VOLUME PER UNIT EJECTION INTERVAL AS A NON-INVASIVELY MEASURABLE PROXY TO DP/DT MAX, A MEASURE OF MYOCARDIAL CONTRACTILITY, IN PIGS**
R. A. Hirsh, M. Torjman;
Cooper University Hospital, Camden, New Jersey
- S-23 **DYNAMIC HIGH RESOLUTION POSITRON EMISSION TOMOGRAPHY TO ASSESS BIODISTRIBUTION OF F-18-FDG LABELED CELLS IN MICE**
A. U. Swintek, C. Bätza, J. Larmann, G. Theilmeier, M. Schäfers;
Institute for Anatomy, University Hospital Münster, Münster, Germany
- S-24 **REGIONAL PHASE ANGLE ANALYSIS OF ISCHEMIA-INDUCED DYSSYNCHRONOUS MYOCARDIAL CONTRACTION**
D. P. Strum, M. R. Pinsky;
Queen's University, Kingston, Ontario, Canada and University of Pittsburgh, Pittsburgh, Pennsylvania

***Kosaka Session

**Cardiothoracic & Vascular – Basic Science (Myocardial Protection) Abstracts in Poster Discussion Round S-25–S-32
Presenters in attendance 1:00 – 2:30**

PR01-8

Poster Moderators:

Andrew J. Patterson, MD, PhD; Stanford University, Stanford, California
Sugantha Sundar, MD; Harvard Medical School, Boston, Massachusetts

Learner Objective: To understand recent advances in myocardial protection.

- S-25 **UROKINASE-TYPE PLASMINOGEN ACTIVATOR RECEPTOR (U-PAR) DEFICIENCY REDUCES INFARCT SIZE AND IMPROVES NEUROLOGICAL OUTCOME AFTER FOCAL CEREBRAL ISCHEMIA AND REPERFUSION IN MICE**
T. Frenzel, S. Fanxia, J. Larmann, W. L. Young, G. Theilmeier, G. Yang;
University Hospital Münster, Münster, Germany and The Center for Cerebrovascular Research, University of California at San Francisco, San Francisco, California
- S-26 **TLR4 PROTECTS CARDIOMYOCYTES FROM APOPTOSIS AND REDUCES MYOCARDIAL INFARCTION IN A MOUSE MODEL OF ISCHEMIA-REPERFUSION INJURY**
H. Zhao, X. Zhu, U. Schmidt, W. Chao;
Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts
- S-27 **REACTIVE OXYGEN SPECIES AND MITOCHONDRIAL KATP CHANNELS MEDIATE HELIUM-INDUCED CARDIOPROTECTION IN RABBITS**
P. S. Pagel, J. G. Krolkowski, Y. H. Shim, D. C. Warltier, J. R. Kersten, P. F. Pratt;
Medical College of Wisconsin, Milwaukee, Wisconsin
- S-28 **ORALLY BIOAVAILABLE S1P-ANALOGUE MOBILIZES ENDOTHELIAL PROGENITORS AND PROTECTS AGAINST MYOCARDIAL ISCHEMIA IN MICE**
A. Hahnenkamp, B. Levkau, G. Theilmeier;
University Hospital Münster, Münster, Germany and University of Essen, Essen, Germany
- S-29 **EARLY VS MODERATELY-LATE EXTUBATION FOLLOWING CARDIAC SURGERY: ARE THESE THE SAME PATIENTS?**
P. M. Cruchley, D. Veniott;
St. Mary's General Hospital, Kitchener, Ontario, Canada
- S-30 **GENDER DIFFERENCE OF OPIOID-INDUCED CARDIOPROTECTION IS INFLUENCED BY ESTROGEN**
M. Merkel, L. Liu, Z. Cao, W. Packwood, P. Hurn, D. Van Winkle;
Oregon Health Service University, Portland
- S-31 **ISOSORBIDE DINITRATE (ISDN) PROTECTS RAT HEART AGAINST ISCHEMIA-REPERFUSION INJURY**
S. Hagiwara, H. Iwasaka, T. Uchinou, S. Matumoto, T. Noguchi;
Oita University Faculty of Medicine, Yufu City, Japan
- S-32 **ANESTHETIC PRECONDITIONING BY 2% SEVOFLURANE IS LOST WITHIN 1 HR AFTER A BRIEF EXPOSURE IN ISOLATED GUINEA PIG HEARTS**
C. Okusa, M. Miyamae, S. Sugioka, K. Kaneda, Y. Inamura, J. Kotani;
Osaka Dental University, Osaka, Japan

**SATURDAY, MARCH 24 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

**Cardiothoracic & Vascular – Basic Science (Inflammation)
Abstracts in Poster Discussion Round: S-33 – S-40
Presenters in attendance 1:00 – 2:30 (note time)**

PR01-9

Poster Moderators:

Yong Peng, MD; Shands Hospital at the University of Florida, Gainesville, Florida
Kenichi Tanaka, MD; Emory University School of Medicine, Atlanta, Georgia

Learner Objective: To understand recent updates of cardiothoracic anesthesia and inflammation.

**** S-33 NON-INVASIVE IN VIVO OPTICAL TRACKING OF MACROPHAGE RECRUITMENT TO ATHEROSCLEROTIC INJURIES USING FLUORESCENCE MEDIATED TOMOGRAPHY IN MICE**

*T. Frenzel, J. Larmann, M. Schmitz, G. Theilmeier, C. Bremer;
University Hospital Münster, Münster, Germany*

S-34 CARBON MONOXIDE INDUCES ANTIINFLAMMATORY RESPONSE IN LUNGS DURING CARDIOPULMONARY BYPASS SURGERY IN PIGS

*U. M. Göbel, M. Siepe, P. Stein, A. Mecklenburg, C. Schlensak, T. Loop;
University Hospital Freiburg im Breisgau, Freiburg, Germany*

S-35 HIGH-DOSE MORPHINE IMPAIRS ANGIOGENESIS AND MOBILIZATION OF ENDOTHELIAL PROGENITOR CELLS IN A MOUSE MODEL OF EXCISIONAL WOUND INJURY

*Y. Liu, Y. Sung, C. Lam, Y. Tsai;
National Cheng Kung University College of Medicine, Tainan, Taiwan*

S-36 LIDOCAINE REDUCES MYOCARDIAL INFARCTION SIZE IN MICE BUT DOES NOT INHIBIT RECRUITMENT OF PMNS

*D. Kaczmarek, K. Hahnenkamp, H. Van Aken, G. Theilmeier;
University Hospital Münster, Münster, Germany*

S-37 DOSE-DEPENDENT EFFECTS OF APROTININ ON SYSTOLIC PERFORMANCE IN A MOUSE MODEL OF ISCHEMIA-REPERFUSION

*M. D. McEvoy, A. B. Taylor, J. A. Zavadzkas, J. E. McLean, S. T. Reeves, F. G. Spinale;
Medical University of South Carolina, Charleston, South Carolina
Disclosure: Grants/Research Support - Bayer Pharmaceuticals
Research Support*

S-38 SUPERIORITY OF TEMPERATURE-DEPENDENT LOGISTIC TIME CONSTANT FOR ISOVOLUMIC LEFT VENTRICULAR PRESSURE FALL IN ISOLATED CANINE HEART

*J. Mizuno, J. Shimizu, S. Mohri, J. Araki, K. Hanaoka, Y. Yamada;
The University of Tokyo, Tokyo, Japan and Okayama University
Graduate School of Medicine, Dentistry and Pharmaceutical
Sciences, Okayama, Japan*

S-39 PROGRESSIVE ACCUMULATION OF THE ACUTE STRESS PROTEIN α B-CRYSTALLIN IN AN OVINE MODEL OF CHRONIC HEART FAILURE

*G. Monreal, M. A. Gerhardt;
The Ohio State University, Columbus, Ohio*

S-40 EXERCISE INDUCED VENTRICULAR HYPERTROPHY ENLARGES MYOCARDIAL DAMAGE AFTER ISCHEMIA IN MICE

*C. Lanckohr, A. Hahnenkamp, T. Frenzel, F. C. Mooren, J. Stypmann, G. Theilmeier;
University Hospital Münster, Münster, Germany and University of
Giessen, Giessen, Germany*

**Best of Section

***Kosaka Session

**Pain – Basic Science
Abstracts in Poster Discussion Round: S-169 – S-176
Presenters in attendance 3:00 – 4:30 (note time)**

PR01-10

Poster Moderators:

Pamela Flood, MD; Columbia University, New York, New York
Spencer Liu, MD; Virginia Mason Medical Center, Seattle, Washington

Learner Objective: To review recent developments in the mechanisms of pain and of interventions to alleviate chronic and perioperative pain.

***** S-169 MINOCYCLINE DOES NOT REDUCE HYPERALGESIA IN A PLANTAR INCISION PAIN MODEL**

*J. S. Kroin, A. Buvanendran, K. J. Tuman;
Rush Medical College, Chicago, Illinois*

*** S-170 NEUROIMAGING EVIDENCE FOR SUBJECTIVE ANALGESIC EFFECTS OF OPIOIDS AND IMMERSIVE VIRTUAL REALITY DISTRACTION.**

*S. R. Sharar, H. G. Hoffman, T. L. Richards, T. Van Oostrom, B. A. Coda, M. P. Jensen;
University of Washington, Seattle, Washington
Disclosure: Grants/Research Support - Supported in part by the
IARS 2006 Clinical Scholar Research Award.*

***** S-171 NICORANDIL, A K⁺ATP CHANNEL OPENER, INHIBITS MUSCARNIC ACTIVATION OF EXTRACELLULAR SIGNAL-REGULATED KINASES (ERK) IN PC12 CELLS**

*K. Niinomi, H. Iida, S. Dohi;
Daiyukai General Hospital, Ichinomiya, Japan, Gifu University
Graduate School of Medicine, Gifu, Japan*

S-172 USE OF A KNEE SURGERY ANIMAL MODEL TO ASSESS MODULATION OF POSTOPERATIVE PAIN-RELATED BEHAVIOR BY MORPHINE, KETAMINE, OR CLONIDINE

*A. Buvanendran, J. S. Kroin, K. J. Tuman;
Rush Medical College, Chicago, Illinois*

S-173 THE ROLE OF P38MAPK IN SPINAL CORD RELEASE OF THE INFLAMMATORY CYTOKINE TNF- α IN THE CCI RATS

*L. Xu, Y. Huang, N. Yang, P. Zuo, X. Yu, J. Yue;
Peking Union Medical College Hospital, Beijing, China*

S-174 ANALGESIC EFFECT OF LOW-LEVEL LASER THERAPY ON INFLAMED PAWS OF RAT

*S. Hagiwara, H. Iwasaka, T. Uchinou, S. Matumoto, T. Noguchi;
Oita University Faculty of Medicine, Yufu City, Japan*

S-175 PELVIC ORGAN COLOCALIZATION WITHIN DORSAL ROOT GANGLIA

*J. S. McDonald, A. J. Rapkin;
Harbor-UCLA, Torrance, California and David Geffen School of
Medicine, Los Angeles, California
Disclosure: Consultant - Pfizer*

S-176 SYSTEMIC BLOCKADE OF GLYCINE, GAMMA AMINOBUTYRIC ACID(GABA)_A AND GABA_B RECEPTORS INCREASES SEVOFLURANE MINIMUM ALVEOLAR CONCENTRATION IN RATS

*H. Nagatani, T. Oshima, A. Urano, Y. Hasegawa, Y. Nakata;
Teikyo University School of Medicine, Tokyo, Japan*

*Best of Meeting

**Best of Section

***Kosaka Session

**SATURDAY, MARCH 24 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Pain – Clinical – Acute (1)

**Abstracts in Poster Discussion Round: S-177 – S-184
Presenters in attendance 3:00 – 4:30**

PR01-11

Poster Moderators:

John F. Butterworth, MD; Indiana University School of Medicine, Indianapolis, Indiana
Arthur Calimaran, MD; University of Mississippi Medical Center, Jackson, Mississippi

Learner Objective: To understand recent advances in the mechanisms of acute pain and to understand the implications of those mechanisms for clinical practice.

S-177 IMPROVING LONG-TERM OUTCOMES FOLLOWING ACL SURGERY: USE OF PREVENTATIVE MULTIMODAL ANALGESIA WITH COX-2 INHIBITION

S. S. Reuben, D. Charron, E. F. Ekman, H. Maciolek;
Baystate Medical Center, Springfield, Massachusetts and Southern Orthopaedic Sports Medicine, Columbia, South Carolina
Disclosure: Grants/Research Support - Pfizer, Inc.

S-178 ALVIMOPAN ACCELERATES GASTROINTESTINAL RECOVERY AND DECREASES LENGTH OF HOSPITAL STAY AFTER BOWEL RESECTION WITHOUT COMPROMISING OPIOID-BASED ANALGESIA

E. R. Viscusi, R. A. Steinbrook, W. Du, L. Techner;
Jefferson Medical College, Thomas Jefferson University, Philadelphia, Pennsylvania; Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts and Adolor Corporation, Exton, Pennsylvania
Disclosures: Grants/Research Support - Ortho McNeil, Endo, Progenics, Baxter, Xsira; Consultant - Adolor, Ortho McNeil, SkyePharma, Cadence; Stock Shareholder - Endo

S-179 ACUTE POSTOPERATIVE PAIN SERVICE IN AN ACADEMIC AND COMMUNITY HOSPITAL

J. E. Chelly, L. J. Handley, B. Ben-David, P. J. Forte, D. Metro, J. P. John;
University of Pennsylvania Medical Center, Pittsburgh, Pennsylvania
Disclosure: Grants/Research Support - Bayer, Organon; Consultant - Zimmer; Other Financial - Pfizer

S-180 METHADONE IMPROVES PAIN MANAGEMENT AND PATIENT SATISFACTION IN AMBULATORY SURGICAL PATIENTS

B. Sweitzer, K. Tomfohrde, T. Cutter, M. Drum, David Glick;
University of Chicago, Chicago, Illinois

S-181 ADVANTAGES OF PATIENT CONTROLLED EPIDURAL ANALGESIA (PCEA) FOR POSTOPERATIVE PAIN CONTROL AFTER LUMBAR SPINE SURGERY

E. M. Noguera Chia, E. Farag, I. Kalfas, J. Na, E. Mascha;
Cleveland Clinic, Cleveland, Ohio

S-182 THE BLOOD PRESSURE CUFF: A POTENTIAL NEW TOOL FOR ASSESSING PREOPERATIVE PAIN TOLERANCE

E. T. Nielsen, A. Mellor, K. Ross, G. Neuman;
St Vincent's Catholic Medical Center New York, New York, New York

S-183 POSITRON EMISSION TOMOGRAPHY EVALUATION OF POSTOPERATIVE PAIN RESPONSES FOLLOWING TOTAL KNEE ARTHROPLASTY

A. Buvanendran, A. Ali, T. R. Stoub, R. A. Berger, M. A. Rossi, R. G. Ramsey;
Rush Medical College, Chicago, Illinois

S-184 ALVIMOPAN, A PERIPHERALLY ACTING MU-OPIOID RECEPTOR ANTAGONIST, IS ASSOCIATED WITH REDUCED POSTOPERATIVE NAUSEA AND VOMITING WITHOUT COMPROMISING OPIOID-BASED ANALGESIA

J. F. Foss, R. A. Steinbrook, W. Du, L. Techner;
The Cleveland Clinic, Cleveland, Ohio; Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, Massachusetts; and Adolor Corporation, Exton, Pennsylvania
Disclosure: Consultant - Adolor Corporation; Other Financial - Patient rights - methylalntrexone

Pain – Clinical – Acute (2)

**Abstracts in Poster Discussion Round: S-185 – S-192
Presenters in attendance 3:00 – 4:30**

PR01-12

Poster Moderators:

Daniel R. Bustamante, MD; UTMCK, Knoxville, Tennessee
Peter H. Tonner, MD; Clinic Labor & Delivery, Bremen, Germany

Learner Objective: To understand recent advances in the mechanisms of acute pain and to understand the implications of those mechanisms for clinical practice.

*** S-185 FEMORAL NERVE CATHETER INFUSION OF FENTANYL OR ROPIVACAINE FOR ANALGESIA IN KNEE REPLACEMENT SURGERY.**

J. Dreier, T. Buck, J. Basile, V. Shah, D. Mangar;
University of South Florida, Tampa, Florida
Disclosure: Grants/Research Support - Stryker;

S-186 USE OF EPIDURAL DEXMEDETOMIDINE IN PATIENTS UNDERGOING POST-TRAUMATIC LOWER LIMB ORTHOPEDIC SURGERY.

S. Gogia, M. Maroof, V. Verma, S. Jain, J. P. McGhee, R. M. Khan;
Aligarh Muslim University, Aligarh, India and University of North Carolina, Chapel hill, North Carolina

S-187 COMPARISON OF SAFETY AND EFFICACY OF A FENTANYL TRANSDERMAL PCA SYSTEM TO MORPHINE PCA FOR POSTOPERATIVE ANALGESIA AFTER ABDOMINAL OR PELVIC SURGERY

M. Sabia, I. Gratz, M. E. Goldberg, M. C. Torjman, A. T. Marr, K. Reilly;
Cooper University Hospital, Camden, New Jersey

S-188 THE EFFICACY OF INTRAVENOUS LIDOCAINE FOR ACUTE HERPETIC PAIN

H. Fujii, T. Fukushima, D. Katayama, H. Tokioka, Y. Kosogabe, H. Kajiki;
Lokayama Red Cross General Hospital, Okayama, Japan and Kajiki Hospital, Okayama, Japan

S-189 HEART AND RESPIRATORY RATE CHANGES ARE PREDICTIVE OF PAIN IN PATIENT MONITORED WITH CONTINUOUS OXIMETRY/CAPNOGRAPHY DURING PCA THERAPY

J. Callura, F. J. Overdyk, R. Carter, R. Maddox, C. Henriquez;
Duke University, Durham, North Carolina; Medical University of South Carolina, Charleston, South Carolina; and St. Josephs/ Candler Health Center, Savannah, Georgia
Disclosure: Grants/Research Support - National Patient Safety Foundation

S-190 THE USE OF EXTENDED RELEASE EPIDURAL MORPHINE (DEPODUR™) LEADS TO DECREASED LENGTH OF STAY IN PATIENTS UNDERGOING TOTAL HIP ARTHROPLASTY

M. M. Salomone, C. C. Kam, K. Saleh, M. E. Duriuex;
University of Virginia, Charlottesville, Virginia

S-191 EFFECT OF PREOPERATIVE AND POSTOPERATIVE ULTRASOUND GUIDED RECTUS SHEATH BLOCK AND ILLIOINGUINAL/ILLIOHYPOGASTRIC NERVE BLOCK IN COMBINATION ON POSTOPERATIVE PAIN RELIEF IN PATIENT UNDERGOING ABDOMINAL GYNECOLOGICAL SURGERY.

Y. Shibata, H. Ito, Y. Sato, Y. Fujiwara, T. Komatsu;
Aichi Medical University, Nagakutecho, Japan

S-192 AURICULAR ACUPUNCTURE NEEDLES FOR POSTOPERATIVE PAIN CONTROL IN TOTAL HIP AND KNEE REPLACEMENT SURGERIES

P. Harris, Y. Abraham, S. Splain, M. Jean-Pierre, R. Michael, A. R. Abadir;
The Brookdale University Hospital Med. Ctr., Brooklyn, New York

*Best of Meeting

**Best of Section

**SATURDAY, MARCH 24 – MODERATED
POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS
DISPLAYED – 8:00-4:30**

**Pain – Clinical – Chronic
Abstracts in Poster Discussion Round: S-193 – S-200
Presenters in attendance 3:00 – 4:30**

PR01-13

Poster Moderator:

Raghuvender Ganta, MD; University of Oklahoma Health Science Center, Oklahoma City, Oklahoma

Learner Objective: To discuss advances in clinical applications of new drugs and new knowledge of established drugs used in the operating room and perioperative period.

***** S-193 ADMINISTRATION OF LOW-DOSE ORAL NALTREXONE TO ENHANCE ANALGESIA IN PATIENTS RECEIVING CONTINUOUS INTRATHECAL MORPHINE FOR CHRONIC PAIN: A RANDOMIZED, DOUBLE-BLIND, PROSPECTIVE PILOT STUDY**

*S. Hamann, P. A. Sloan;
University of Kentucky, Lexington, Kentucky*

***** S-194 FACTORS OF FAILURE IN EPIDURAL BLOOD PATCH FOR PATIENTS WITH CSF LEAK**

*S. Ishikawa, M. Yokoyama, S. Mizobuchi, H. Hashimoto, K. Morita;
Fukuyama Kohnan Hospital, Fukuyama, Japan and Okayama University Medical School, Okayama, Japan*

S-195 SACROILIAC JOINT DENERVATION OF THE L4-L5 MEDIAL BRANCH AND S1-S3 LATERAL BRANCH RADIOFREQUENCY THERMOCOAGULATION : A STUDY OF OVERALL EFFICACY OF TECHNIQUE AND COMPARISON OF PULSED VERSUS HIGH TEMPERATURE RADIOFREQUENCY THERMOCOAGULATION

*D. Kim, J. Joshi, M. Glowacki, S. Sankey, H. Kroll;
Henry Ford Hospital, Detroit, Michigan*

S-196 WILLED VISUOMOTOR IMAGERY ALLEVIATES DEAFFERENTATION PAIN: POSSIBLE THERAPEUTIC IMPLICATIONS OF MIRROR VISUAL FEEDBACK

*M. Sumitani, S. Miyauchi, M. Yagisawa, M. Shibata, T. Mashimo;
Osaka University Medical Hospital, Osaka, Japan; Kobe Advanced ICT Research Center, National Institute of Information and Communications Technology, Kobe, Japan and Hyogo College of Medicine, Hyogo, Japan*

S-197 TREATMENT OF CHRONIC COMPLEX REGIONAL PAIN SYNDROME TYPE I TUNNELED EPIDURAL INFUSION OF MARCAINE ALONE VIA I-FLOW FIXED RATE BALLOON PUMP FOR CONTINUOUS SYMPATHETIC BLOCKADE: PROSPECTIVE STUDY OF LONG TERM PAIN RELIEF AND FUNCTIONAL OUTCOMES.

*D. Kim, M. Khan, S. Sankey;
Henry Ford Hospital, Novi, Michigan and Henry Ford Hospital, Detroit, Michigan*

S-198 ANALYSIS OF URINE DRUG SCREEN TESTING IN AN INNER CITY PAIN MEDICINE CLINIC

*M. Gallagher;
Temple University School of Medicine, Philadelphia, Pennsylvania*

S-199 MORPHOLOGICAL FINDINGS OF THE CAUDA EQUINA IN CHILDREN DURING THE LATERAL DECUBITUS POSITION

*S. Yamaguchi, N. Furukawa, T. Takiguchi, M. Tezuka, T. Kitajima;
Dokkyo Medical University, Mibu, Japan*

S-200 COMPARISON OF KETAMINE AND FENTANYL FOR POSTOPERATIVE ANALGESIA AFTER TONSILLECTOMY IN CHILDREN

*N. El-Shammaa, J. Thomas, W. Housny, V. Chidambaram, I. Sedrak, R. Michael, J. Kim;
The Brookdale University Hospital Med. Ctr., Brooklyn, New York*

***Kosaka Session

FACULTY DISCLOSURES

Chou, Hsiu-Chin* Page 26	Disclosure: Royalty – Achi Corporation
Gan, Tong J.* Pages 16, 24, 30	Disclosure: Grants/Research Support – Merck, Pfizer, Progenics, Javellin
Gelb, Adrian W.* Pages 14, 35	Disclosure: Journal Anesthesia
Glass, Peter* Pages 23, 24	Disclosure: Other – Johnson & Johnson
Horlocker, Terese* Pages 25, 34	Disclosure: Other – Pharmacia, Zimmer
Johnson, Ken* Pages 12, 15, 33	Disclosure: Other – Echocardiography, General Electric
Kopp, Sandra* Page 25	Disclosure: Other – Stryker
Maurer, Walter* Page 24	Disclosure: Other – Prompte
Reich, David* Page 37	Disclosure: Other – Philips Medical
Sebel, Peter* Page 13	Disclosure: Consultant – Aspect Medical
Shafer, Steven L. * Pages 37, 38, 46	Disclosure: Stockholder – PharmacoFore; Honorarium – Ethicon Endo; Other – Ethicon Endo-Surgery (Chair)
Slinger, Peter* Pages 33, 34	Disclosure: Other – Cook Critical Care, Bayer
Wu, Tzu-Lang* Page 26	Disclosure: Other – Achi Corporation - Royalty

SUNDAY, MARCH 25

7:30 - 8:00 CONTINENTAL BREAKFAST – EXHIBIT HALL

7:30 - 1:00 EXHIBITS – EVENT CENTER
AND

4:30 - 6:30 RECEPTION – EVENT CENTER

REVIEW COURSE LECTURES – GREAT HALL NORTH

8:00 - 8:45 **THE PATHOPHYSIOLOGY OF PERIOPERATIVE MYOCARDIAL INFARCTION**
R09

Giora Landesberg, MD, DSc, MBA
Associate Professor
Anesthesiology and Critical Care Medicine
Hebrew University - Hadassah Medical Center
Jerusalem, Israel

Learner Objectives: The objectives for this lecture are: 1) To explain the special features delineating perioperative MI (PMI) as opposed to non-surgical MI; 2) To explain the role of silent ischemia and in particular prolonged ischemia in the evolution of PMI; 3) To discuss the role of myocardial injury (troponin elevation) and define the differences between myocardial ischemia, injury and infarction; 4) To lay out a comprehensive theory as to the mechanisms of PMI.

8:50 - 9:35 **ANESTHESIA FOR PEDIATRIC NEUROSURGERY**
R10

Jay Deshpande, MD
Professor of Anesthesiology and Pediatrics
Medical Director for Performance Management and Improvement
Vanderbilt Children's Hospital
Nashville Tennessee

Learner Objectives: 1) review general considerations of neuroanesthesia care; 2) discuss differences between adult and pediatric patients undergoing neurosurgery; 3) discuss approaches to pediatric conditions commonly presenting for neurosurgery.

9:30 - 10:15 COFFEE BREAK - EXHIBIT HALL

10:15 - 11:00 **ARDS - IS THERE A MAGIC BULLET?**
R11

Robert N. Sladen, MD
Vice Chairman and Professor of Anesthesiology
Department of Anesthesiology
Columbia University
New York, New York

Learner Objectives: 1) Review the mechanisms, pathogenesis and natural history of ARDS; 2) Understand the fundamental principles of protective lung strategy; 3) Evaluate the evidence for and against therapeutic interventions including ventilatory strategies and pharmacologic "magic bullets."

11:05 - 11:50 **PAIN MANAGEMENT FOR AMBULATORY SURGICAL PATIENTS**
R12

Peter Glass, MD*
Professor and Chair
Department of Anesthesiology
SUNY at Stony Brook
Stony Brook, New York

Learner Objective: Provide an overview of the pathophysiology of acute pain. Provide an update of drugs and drug delivery systems for pain management of ambulatory surgical patients. Provide the clinician with approaches to include the latest innovations of acute pain management into their practice

11:45 - 1:00 EXHIBITS – LUNCH BREAK

1:00 - 2:30 PLENARY SESSION R13

AWARD PRESENTATIONS and T.H. SELDON MEMORIAL LECTURE

Presiding: Donald S. Prough, MD
Chair, IARS Board of Trustees

T. H. SELDON MEMORIAL LECTURE – 1:00 - 2:30
GREAT HALL NORTH

Tony L. Yaksh, MD
Distinguished Professor in Anesthesiology and Pharmacology
University of California, San Diego

Spinal Drug Delivery: Technology, Biology, and Toxicology

2:30 - 3:00 SODA BREAK – GREAT HALL CENTER

REVIEW COURSE LECTURE – GREAT HALL NORTH

3:00 - 3:45 **WHAT'S NEW IN PATIENT SAFETY AND HOW IT WILL AFFECT YOUR PRACTICE**
R14

Paul Barach, MD
Associate Professor
Department of Anesthesia
College of Medicine and Public Health
University of South Florida
Miami, Florida

Learner Objectives: 1) To review the central role of patient safety as a driver of health care; 2) To understand the role that human factors and culture play in making health care safer; 3) To explore how to improve patient hand-offs and patient identification tools to improve the safety of your patients; 4) To introduce the role of teams and team training in providing safe care; 5) To review key JACO guidelines relating to improving patient safety.

3:50 - 4:35 **PERIOPERATIVE MANAGEMENT OF CARDIAC ARRHYTHMIAS**
R15

Charles Hogue, MD
Associate Professor of Anesthesiology
and Critical Care Medicine
Department of Anesthesiology and Critical Care Medicine
The Johns Hopkins Medical Institutions
Baltimore, Maryland

Learner Objectives: The aims of this lecture are: 1) discuss evidence-based treatments for common cardiac arrhythmias; 2) provide a focused overview of the management of atrial fibrillation (AF) and Torsade de Pointe (TdP); and 3) summarize special considerations for the perioperative management of cardiac arrhythmias.

PANELS – GREAT HALL EAST

8:00 - 9:30 **LIVER TRANSPLANT: PROFESSIONAL AND ETHICAL ISSUES**
PL09

Marie Csete, MD, PhD - Moderator

PROFESSIONAL ISSUES IN TRANSPLANTATION

Randy Steadman, MD

Associate Professor of Clinical Anesthesiology
Department of Anesthesiology
UCLA School of Medicine
Los Angeles, California

UPDATE ON DCD (DONATION AFTER CARDIAC DEATH)

Zoltan Hevesi, MD

Director of Transplant Anesthesia
Associate Professor
Departments of Anesthesiology and Surgery
University of Wisconsin
Madison, Wisconsin

ETHICAL FUNDAMENTALS ADDRESSED AT THE UNOS ETHICS COMMITTEE

Marie Csete, MD, PhD

Associate Professor & John E. Steinhaus
Professor of Anesthesiology
Director, Emory/GaTech Human Embryonic Stem Cell Core
Co-Director, Emory MD/PhD Program
Director, Liver Transplant Anesthesiology
Emory University Hospital
Atlanta, Georgia

Learner Objectives: 1) Review the fundamental ethical principles underlying organ allocation and controversies about the relevance of these fundamentals over time. 2) Understand the current controversies regarding allocation of cadaveric kidneys in light of interpretation of fundamental ethical principles for organ allocation. 3) Review current state of information regarding transplant tourism.

Educational Grant Support

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Course Lecture CD-ROM**



**Baxter Healthcare Corporation
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2007 Review Course Lectures Book**

PANELS – GREAT HALL EAST

10:15 - 11:45 **SOCIETY FOR PEDIATRIC ANESTHESIA (SPA)**
PL10 **SESSION – CURRENT TOPICS AND**

CONTROVERSIES IN PEDIATRIC ANESTHESIA
PEDIATRIC CPR AND ADVANCED LIFE SUPPORT –
NEW SCIENCE



Jay Deshpande, MD

Professor of Anesthesiology and Pediatrics
Medical Director for Performance Mgmt. & Improvement
Vanderbilt Children's Hospital
Nashville Tennessee

NEW AGENTS AND ADJUVANTS IN PEDIATRIC ANESTHESIA

Linda Mason, MD

Professor of Anesthesiology and Pediatrics
Director of Pediatric Anesthesia
Loma Linda University Medical Center
Loma Linda, California

Learner Objective: Upon completion of this lecture, participants will be able to apply management skills in using new drugs including clonidine, dexmedetomidine and remifentanyl in pediatric patients.

PEDIATRIC AIRWAY EMERGENCIES

Robert Holzman, MD, FACC

Associate Professor, Department of Anesthesiology
Children's Hospital
Boston, Massachusetts

Learner Objectives: At the completion of the lecture the learner will understand and will be able to utilize in a practical fashion: 1) the special role that positioning can have in severe airway compromise and its importance for anesthetic management; 2) the physics of gas flow in specific situations of airway compromise, and the considerations for spontaneous vs. controlled ventilation; 3) the specific pharmacologic geography of the airway.

3:00 - 4:30 **SOCIETY FOR AMBULATORY ANESTHESIA**
PL12 **(SAMBA) SESSION – CONTROVERSIES IN**

AMBULATORY ANESTHESIA



UPDATE ON SEDATION BY ANESTHESIOLOGISTS
VS. SEDATION BY OTHERS

Walter Maurer, MD*

Section Head - Ambulatory Surgery
General Anesthesia
Cleveland, Clinic Foundation
Cleveland, Ohio

IS SPINAL ANESTHESIA STILL APPROPRIATE FOR
THE AMBULATORY PATIENT?

Peter Glass, MD*

Professor and Chair
Department of Anesthesiology
SUNY at Stony Brook
Stony Brook, New York

THE ROLE OF NON-OPIOID ANALGESICS IN
AMBULATORY PATIENTS

Tong Gan, MB, FRCA*

Professor and Vice Chair for Clinical Research
Department of Anesthesiology
Duke University Medical Center
Durham, North Carolina

Learner Objectives: The presentation will review: 1) Prevalence of pain in postoperative ambulatory patients; 2) New perspective in the mechanism of pain; 3) Discuss the role of non-opioid analgesics in ambulatory patients.

PANEL – GREAT HALL WEST

8:00 - 9:30 **PL13** AMERICAN SOCIETY OF ANESTHESIOLOGISTS (ASA) TASK FORCE

ASA TASK FORCE ON RESPIRATORY DEPRESSION FOLLOWING NEURAXIAL OPIOIDS

Terese T. Horlocker, MD*
Professor of Anesthesiology
Department of Anesthesiology
Mayo Clinic
Rochester, Minnesota

Richard T. Connis, PhD
Woodinville, Washington

David Nickinovich, PhD
Bellevue, Washington

Christopher L. Wu, MD
The Johns Hopkins University
Baltimore, Maryland

Learner Objective: Discuss risk management of patients who receive neuraxial opioids.

10:15 -11:45 **PL14** PRACTICAL ASPECTS OF PERIPHERAL NERVE BLOCKADE

THE GOOD, THE BAD, AND THE UGLY: COMPLICATIONS OF PERIPHERAL NERVE BLOCKADE

James Hebl, MD - Moderator
Department of Anesthesiology
Mayo Clinic
Rochester, Minnesota

PRACTICAL APPLICATIONS OF PERIPHERAL NERVE BLOCKADE: WHO, WHEN, AND HOW

Sandra Kopp, MD*
Department of Anesthesiology
Mayo Clinic College of Medicine
Rochester, Minnesota

TRICKS OF THE TRADE: HOW TO INSURE PERIPHERAL TECHNIQUES WORK FOR YOU

Francesca Kayser Enneking, MD
Associate Professor and Chief
Department of Anesthesia
University of Florida College of Medicine
Gainesville, Florida

SHOW ME THE DATA: A CRITICAL LOOK AT PERINEURAL INFUSIONS AND OUTCOMES

Spencer S. Liu, MD
Clinical Professor of Anesthesiology
Department of Anesthesiology
Virginia Mason Medical Center
Seattle, Washington

Learner Objective: To acquire an understanding of the hemorrhagic, infectious, and neurologic complications associated with peripheral nerve blockade.

IARS ANESTHESIOLOGY TEACHING RECOGNITION AWARD SESSION GREAT HALL WEST

3:00 - 4:30

PL15

Moderator: Robert N. Sladen, MD - Chair, IARS Anesthesiology Teaching Recognition Award Committee

Learner Objective: The IARS Anesthesiology Teaching Recognition Award session will provide the attendee with insights from outstanding educators.

2007 Recipient

David J. Birnbach, MD, MPH - University of Miami, Miami, Florida

Honorable Mentions

Tammy Y. Euliano, MD - University of Florida, College of Medicine, Gainesville, Florida

Adam I. Levine, MD - Mount Sinai School of Medicine, New York, New York

G. Alec Rooke, MD, PhD - University of Washington, Seattle, Washington

Christopher L. Wu, MD* - The Johns Hopkins University, Baltimore, Maryland

MODERATED POSTER DISCUSSION ROUNDS GREAT HALL CENTER POSTER DISPLAYED 8:00 - 4:30

Discussion Time: 8:00 - 9:30	Page
Cardiothoracic & Vascular - Clinical (1)	27
Cardiothoracic & Vascular - Clinical (2)	27
Challenging Cases (1)	28
Challenging Cases (2)	28

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Pharmacology - Clinical (1)	29
Pharmacology - Clinical (2)	29
Pharmacology - Clinical (3)	30

Discussion Time: 3:00 - 4:30	Page
Critical Care Medicine & Trauma (1)	30
Critical Care Medicine & Trauma (2)	31
Regional & Academics	31
Regional	32

**ADVANCED AIRWAY MANAGEMENT WORKSHOP
KNIGHTS HALL
8:00 - 11:00**

Please note that **Workshops** will have limited attendance and are available to registrants on a **first-come, first-served basis**. There is a **non-refundable \$50.00 registration fee to attend each workshop**.

8:00 - 11:00 **ADVANCED AIRWAY MANAGEMENT WORKSHOP**
W03

Faculty:

Mayo Clinic College of Medicine – Rochester, Minnesota

Brian Hall, MD - Assistant Professor of Anesthesiology
Craig Kluck, CRNA, MA - Staff Anesthetist
Timothy Long, MD - Assistant Professor of Anesthesiology
William D. Mauck, MD - Instructor in Anesthesiology
Eric Moore, MD - Assistant Professor of Otolaryngology
Dave Rettler, CRNA - Staff Anesthetist
Gurinder M.S. Vasdev, MD, FRCA - Assistant Professor of Anesthesiology
Michael Walsh, MD - Assistant Professor of Anesthesiology
Thomas Wass, MD - Assistant Professor of Anesthesiology
Toby Weingarten, MD - Assistant Professor of Anesthesiology

Mayo Clinic College of Medicine – Jacksonville, Florida

Barry Harrison, MD - Assistant Professor of Anesthesiology

Baylor College of Medicine – Houston, Texas

Ashu Wali, MD, FFARCSI - Associate Professor of Anesthesiology

Kansas University Medical Center – Wichita, Kansas

Martin De Ruyter, MD - Associate Professor of Anesthesiology

Cleveland Clinic – Cleveland, Ohio

Andrew Zura, MD - Section Head Anesthesia for ENT Surgery

Guest Faculty

Hsiu-chin Chou, MD*
Tzu-lang Wu, MD*

The Advanced Airway Management Workshop will allow for "hands-on" experience in managing the difficult airway. Instructors include anesthesiologists, pulmonologists, as well as ENT physicians who are comfortable with managing the difficult airway and are enthusiastic teachers. This year we have restructured the workshop to include both static equipment stations and simulator stations. The static stations include specific instruction on flexible fiberoptic techniques, Bullard scope, Wu scope, Trachlight usage, percutaneous cricothyrotomy techniques, and transtracheal jet ventilation. Our ENT colleagues will teach a station which has always been very popular in past workshops, instruction on tracheostomy performance utilizing pig tracheas. A simulator station will allow practice employing the use of the difficult airway algorithm and appropriate equipment by means of urgent and emergent airway scenarios.

Learner Objective: The airway workshop is designed to offer hands on experience with a number of techniques in the management of the difficult airway. Indications, contraindications, and practical tips will be discussed for each airway device and technique.

**TEE: BASICS FOR THE NOVICE USER
KNIGHTS HALL
2:30 - 4:30**

Please note that **Workshops** will have limited attendance and are available to registrants on a **first-come, first-served basis**. There is a **non-refundable \$50.00 registration fee to attend each workshop**.

2:30 - 4:30 **TEE: BASICS FOR THE NOVICE USER**
W04

Roman Sniecinski, MD

Assistant Professor of Anesthesiology
Department of Anesthesiology
Division of Cardiothoracic Anesthesia
Emory University School of Medicine
Atlanta, Georgia

Michael K. Cahalan, MD

Professor and Chairman
Department of Anesthesiology
University of Utah Medical Center
Salt Lake City, Utah

William Whitley, MD

Division of Cardiothoracic Anesthesia
Emory University Hospital
Atlanta, Georgia

Learner Objectives: After attending the session, the participant should: 1) understand the basic physics behind ultrasound image formation; 2) know the technique and contraindications for TEE probe placement; 3) be familiar with basic views obtained with TEE; 4) be familiar with certain features on the ultrasound machine related to image acquisition; 5) understand how TEE can be used in clinical decision making in the operating room.

4:30 - 6:30 **RECEPTION – EVENT CENTER**

**SUNDAY, MARCH 25 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Cardiothoracic & Vascular – Clinical (1)

**Abstracts in Poster Discussion Round: S-41– S-48
Presenters in attendance 8:00 – 9:30**

PR02-14

Poster Moderators:

Neal H. Cohen, MD, MPH; University of California, San Francisco, San Francisco, California
Yaacov Gozal, MD; Hadassah University, Jerusalem, Israel

Learner Objective: To understand recent developments in the surgical patient.

- * **S-41 DEXMEDETOMIDINE PROVIDES ADEQUATE SEDATION AND HEMODYNAMIC CONTROL FOR AWAKE, DIAGNOSTIC TRANSESOPHAGEAL ECHOCARDIOGRAPHY**
L. Cooper, K. Candiotti, C. Gallagher, E. Grenier, K. Arheart, M. Barron;
Ochsner Health Systems, New Orleans, Louisiana; University of Miami Miller School of Medicine, Miami, Florida and State University of New York - Stonybrook, Stonybrook, New York
Disclosure: Grants/Research Support - \$25,000 grant from Hospira, Inc.
- S-42 ETOMIDATE AND LEFT VENTRICULAR CONTRACTILITY: AN ECHOCARDIOGRAPHIC STUDY**
M. Dejonckheere, L. Perrin, A. Ducart, M. Koch, I. Huybrechts, D. Schartz;
Erasme Hospital, ULB, Brussels, Belgium
- S-43 NEW ELECTROCARDIOGRAPHY PARAMETERS AMONG CRITICALLY ILL OBSTETRICS PATIENTS**
R. Souissi, N. Baffoun, H. Souissi, S. Marrakchi, C. Kaddour, L. Skandrani;
National Institut of Neurology, Tunis, Tunisia; and La Rabta Hospital, Tunis, Tunisia
- S-44 CHRONIC PREOPERATIVE B-BLOCKER USAGE DOES NOT INFLUENCE INTRAOPERATIVE B-BLOCKER ADMINISTRATION IN PATIENTS WITH CAD OR AT RISK FOR CAD**
M. Vigoda, L. Rodriguez, K. Perry, R. Deshpande, D. Lubarsky;
University of Miami School of Medicine, Miami, Florida
- S-45 INTERCURRENT HYPERTENSION IS ASSOCIATED WITH POSTOPERATIVE TROPONIN INCREASES IN THE NON-CARDIAC SURGICAL PATIENT.**
G. M. Howard-Alpe, J. W. Sear, B. M. Biccand, H. E. Higham;
Nuffield Department of Anaesthetics, University of Oxford, Oxford, United Kingdom
- S-46 COMPARISON OF THREE DIFFERENT EPIDURAL SOLUTIONS IN CARDIAC SURGERY FOR STRESS PROTECTION**
J. Olivier, P. B. Nguyen, T. Schrickler, N. Le, I. Prieto, T. M. Hemmerling;
McGill University, Université de Montréal - PeriCARG, Montréal, Quebec, Canada
- S-47 GENDER DISPARITIES FOUND IN PREOPERATIVE BETA BLOCKER USE BUT NOT ANESTHESIOLOGISTS' INTRAOPERATIVE USE IN THE MANAGEMENT OF PATIENTS WITH CORONARY ARTERY DISEASE UNDERGOING NON-CARDIAC SURGERY**
M. Vigoda, K. Perry, L. Rodriguez, R. Deshpande, D. Lubarsky;
University of Miami School of Medicine, Miami, Florida
- S-48 PILOT STUDY TO DETERMINE SEVOFLURANE DOSING DURING EXTRACORPOREAL CIRCULATION USING BIS MONITORING**
J. Rheaume, P. Nguyen, D. Bracco, N. Noiseux, T. M. Hemmerling;
Université de Montréal (PeriCARG), Montréal, Quebec, Canada; and McGill University of Montréal (PeriCARG), Montréal, Quebec, Canada

*Best of Meeting

**Best of Section

Cardiothoracic & Vascular – Clinical (2)

**Abstracts in Poster Discussion Round: S-49– S-56
Presenters in attendance 8:00 – 9:30**

PR02-15

Poster Moderators:

James G. Bovill, MD, PhD, FCARCSI; Leiden University Medical Center, Leiden, The Netherlands
Daniel Vezina, MD; University of Utah, Salt Lake City, Utah

Learner Objective: To understand recent developments in the surgical patient.

- *** **S-49 RELATIONSHIP BETWEEN INTRAOPERATIVE TRANSCRANIAL MYOGENIC MOTOR EVOKED POTENTIALS MONITORING AND ISCHEMIC SPINAL CORD INJURY AFTER DESCENDING THORACIC OR THORACOABDOMINAL AORTIC SURGERY.**
M. Kakinohana, M. Oshiro, N. Noguchi, C. Fukumoto, J. Okubo, K. Sugahara;
University of the Ryukyus, Okinawa, Japan
- *** **S-50 MORPHINE ATTENUATES THE INFLAMMATORY RESPONSE TO CARDIOPULMONARY BYPASS**
G. S. Murphy, J. W. Szokol, J. H. Marymont, M. J. Avram, J. S. Vender;
Evanston Northwestern Healthcare, Evanston, Illinois and Northwestern University, Chicago, Illinois
- S-51 A NOVEL APPROACH FOR PAIN RELIEF AFTER CARDIAC SURGERY VIA MEDIAN STERNOTOMY: BILATERAL, SINGLE-SHOT PARAVERTEBRAL BLOCKS**
P. B. Nguyen, N. Noiseux, D. Bracco, J. Olivier, N. Le, T. M. Hemmerling;
Université de Montréal, Montréal, Quebec, Canada and McGill University, Université de Montréal (PeriCARG), Montréal, Quebec, Canada
- S-52 CHANGES IN FINGER AND FOREHEAD BLOOD FLOW UPON SQUATTING AND STANDING**
J. L. Feinleib, T. Silverman, R. G. Stout, K. H. Shelley, D. G. Silverman;
Yale University School of Medicine, New Haven, Connecticut
- S-53 CANADIAN SURVEY ON THE PRACTICE OF REGIONAL ANESTHESIA FOR CARDIAC SURGERY**
P. B. Nguyen, N. Noiseux, D. Bracco, N. Le, T. M. Hemmerling;
Université de Montréal, Montréal, Quebec, Canada and McGill University, Université de Montréal, Montréal, Quebec, Canada
- S-54 DOES THE ADDITION OF THE ARIZANT HEALTHCARE MODEL 635 FULL-ACCESS UNDER BODY BLANKET TO ROUTINE THERMAL CARE IMPROVE HEAT TRANSFER IN CARDIAC SURGERY PATIENTS?**
S. R. Insler, M. Bakri, F. Nageeb, E. Mascha, D. I. Sessler;
Cleveland Clinic Foundation, Cleveland, Ohio
- S-55 SPONTANEOUS POSTPARTUM CORONARY ARTERY DISSECTION**
N. T. Reich, J. Matyska, B. Segal;
St Vincent Catholic Medical Centers-St Vincent's Manhattan, New York, New York
- S-56 LEFT ATRIAL DISSECTION AFTER MULTIVALVULAR HEART SURGERY.**
W. M. Ali Sakr Esa, A. Adi;
Cleveland Clinic Foundation, Cleveland, Ohio

***Kosaka Session

**SUNDAY, MARCH 25 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

**Challenging Cases (1)
Abstracts in Poster Discussion Round
Presenters in attendance 8:00 – 9:30**

PR02-16

Poster Moderators:

Jean Charchafieh, MD; SUNY Downstate Medical Center, Brooklyn, New York
Sherif Afifi, MD; Northwestern University School of Medicine, Chicago, Illinois

Learner Objective: To review principles of management of unusual or difficult cases encountered in anesthesia practice.

- *** 1280 **PERSISTENTLY ELEVATED ARTERIAL LACTATE AS A HERALD OF HYPOXIC HEPATITIS**
C. Mai, G. Miller, R. J. Azocar;
Boston University Medical Center, Boston, Massachusetts
- 1466 **PREGNANCY, ANESTHESIA AND THE CHANGING FACE OF MULTIPLE SCLEROSIS**
R. L. Sun, I. A. Velickovi;
SUNY Downstate, Brooklyn, New York
- 1011 **CESAREAN SECTION IN A PARTURIENT WITH PLACENTA PERCRETA AND POSSIBLE BLADDER INVASION**
G. Shih, J. Raymond, C. Alexander, T. Griebeling;
Kansas University Medical Center, Kansas City, Kansas
- 1005 **A UNIQUE APPROACH TO EISENMENGER'S SYNDROME AND ERCP: DEX TO THE RESCUE**
R. D. Urman, F. Shapiro, D. Reynolds;
Brigham & Women's Hospital, Boston, Massachusetts and Beth Israel Deaconess Medical Center, Boston, Massachusetts
- 1342 **USE OF DEXMEDETOMIDINE FOR SMOOTH RECOVERY AFTER GENERAL ANESTHESIA**
M. Maroof, J. P. McGee, M. A. Hill, A. N. Passannante, P. G. Boysen;
University of North Carolina, Chapel Hill, North Carolina
- 1337 **DEXMEDETOMIDINE FACILITATES THE INDUCTION OF NONINVASIVE POSITIVE PRESSURE VENTILATION IN ASTHMATIC PATIENTS**
Y. Takasaki, K. Ninomiya, T. Fujikawa, K. Takechi, K. Semba;
Uwajima Municipal hospital, Uwajima, Japan
- 1534 **DEXMEDETOMIDINE TREATMENT OF POSTOPERATIVE DELIRIUM FOLLOWING ELECTIVE ORTHOPEDIC SURGERY**
M. C. Ho, K. M. Jules-Elysee, J. T. Ya Deau;
Hospital for Special Surgery, New York, New York

***Kosaka Session

**Challenging Cases (2)
Abstracts in Poster Discussion Round
Presenters in attendance 8:00 – 9:30**

PR02-17

Poster Moderators:

Derek Sakata, MD; University of Utah School of Medicine, Salt Lake City, Utah
Ketan Shevde, MD; SUNY Downstate Medical Center, Brooklyn, New York

Learner Objective: To review principles of management of unusual or difficult cases encountered in anesthesia practice.

- ** 1513 **RHABDOMYOLYSIS AND HYPERPYREXIA WITH PROPOFOL SEDATION IN A CRITICALLY ILL PATIENT**
S. V. Nagaraja, S. K. Singaravelu;
University Hospital Aintree NHS Trust, Liverpool, United Kingdom
- 1529 **CARDIAC ARREST DUE TO ORAL POTASSIUM OVERDOSE**
S. Patel, P. Glover;
Royal Preston Hospital, Preston, United Kingdom and Royal Victoria Hospital, Belfast, United Kingdom
- 1410 **CONTINUOUS INTRAOPERATIVE TEE PREVENTED INADEQUATE SEPTAL MYECTOMY**
E. Alomar-Melero, Y. G. Peng;
University of Florida College of Medicine, Gainesville, Florida
- 1439 **WITHDRAWN**
- 1457 **DUE DILIGENCE (EVEN) IN THE AMBULATORY SURGERY SETTING - THE CASE OF AN OBSTRUCTING CMV AIRWAY TUMOR**
D. H. Low, W. Maurer;
Cleveland Clinic Foundation, Cleveland, Ohio
- 1460 **UNEXPECTED NARROW TRACHEA IN A PATIENT WITH PICKWICKIAN SYNDROME**
A. Chang, A. Zura;
Cleveland Clinic Foundation, Cleveland, Ohio
- 1334 **SINUS ARREST ASSOCIATED WITH THORACIC EPIDURAL ANESTHESIA**
A. H. Fang, A. Wang, A. Lee;
University of California Davis, Sacramento, California
- 1565 **EXTENDED POSTOPERATIVE USE OF DEXMEDETOMIDINE TO CONTROL AGITATION - INDUCED HYPOXEMIC EPISODES IN A LUNG TRANSPLANT PATIENT.**
W. M. Ali Sakr Esa, C. Bashour;
Cleveland clinic, cleveland, Ohio
- 1430 **RHABDOMYOLYSIS WITH COMPARTMENT SYNDROME AFTER COMBINED KIDNEY AND PANCREAS TRANSPLANT**
J. Hudcova, A. Oren-Grinberg, A. Lisbon;
Beth Israel Deaconess Medical Center, Boston, Massachusetts

**Best of Section

**SUNDAY, MARCH 25 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Pharmacology – Clinical (1)

**Abstracts in Poster Discussion Round: S-232 – S-239
Presenters in attendance 10:15 – 11:45**

PR02-18

Poster Moderators:

Markus W. Hollmann, MD, PhD; University of Virginia Health Sciences Center, Charlottesville, Virginia

Mias Pretorius, MD; Vanderbilt University Medical Center, Nashville, Tennessee

Learner Objective: To discuss advances in the clinical application of new drugs and new knowledge of established drugs used in the operating room and perioperative period.

S-232 COMPARISON OF PROPOFOL AND ISOFLURANE DURING EXTUBATION UNDER DEEP ANAESTHESIA

Q. Fan, B. Yu, R. Eltringham;
Rui Jin Hospital, Shanghai Second Medical University, Shanghai, China and Gloucestershire Royal Hospital, Gloucester, United Kingdom

S-233 THE EFFECT OF PROLONGED HIGH TEMPERATURE STORAGE ON TETRACAINE CONCENTRATION.

C. H. Shields, S. Bina, R. Kyle, M. Chernofsky, C. C. Buckenmaier;
Uniformed Services University of the Health Sciences, Bethesda, Maryland

S-234 DYSKALAEMIA DURING THIOPENTONE COMA FOR REFRACTORY INTRACRANIAL HYPERTENSION

S. Y. Ng, K. J. Chin, T. K. Kwek;
Tan Tock Seng Hospital, Singapore, Singapore

S-235 DEFINING DRUG INTERACTION FOR COMBINATION ANTIEMETICS. A SYSTEMATIC REVIEW.

M. T. Chan, T. Gin, Z. Y. Fu, E. K. Koo, K. C. Choi;
Chinese University of Hong Kong, Hong Kong, Hong Kong

S-236 USE OF DEXMEDETOMIDINE INFUSION DURING LAPAROSCOPIC BARIATRIC SURGERY: A DOSE-RANGING STUDY

B. Tufanogullari, P. White, J. Griffin, A. Macaluso, M. Shah, D. Kianpour;
University of Texas Southwestern Medical Center, Dallas, Texas

S-237 THIOPENTAL POTENCY ASSESSED BY BIS

D. Steinberg, G. H. Steinberg;
Hospital Clinicas Caracas & Policlinica Mendez Gimón, Caracas, Venezuela and Central University of Venezuela, Caracas, Venezuela

S-238 INTERACTION OF MORPHINE EFFECT SITE CONCENTRATION AND INFUSION MODE ON RESPIRATORY DEPRESSION DURING PATIENT CONTROLLED ANALGESIA

R. Carter, J. Callura, F. J. Overdyk, R. Maddox, C. Henriquez;
Medical University of South Carolina, Charleston, South Carolina; Duke University, Durham, North Carolina; and St. Josephs/Candler Health System, Savannah, Georgia
Disclosure: Grants/Research Support - National Patient Safety Foundation

***** S-239 ELECTROPHYSIOLOGIC MONITORS AS PREDICTORS OF NOCICEPTION DURING SEVOFLURANE ANESTHESIA IN VOLUNTEERS**

D. K. Gupta, S. C. Manyam, K. B. Johnson, J. L. White, T. D. Egan;
Northwestern University Feinberg School of Medicine, Chicago, Illinois and University of Utah, Salt Lake City, Utah

***Kosaka Session

Pharmacology – Clinical (2)

**Abstracts in Poster Discussion Round: S-240 – S-247
Presenters in attendance 10:15 – 11:45**

PR02-19

Poster Moderators:

John Capacchione, MD; University of the Health Sciences, Bethesda, Maryland

François Donati, PhD, MD, FRCPC; Université de Montréal, Montréal, Québec, Canada

Learner Objective: To discuss advances in the clinical application of new drugs and new knowledge of established drugs used in the operating room and perioperative period.

S-240 PHARMACODYNAMICS OF MIVACURIUM-METOCLOPRAMIDE INTERACTION

D. Steinberg, G. H. Steinberg;
Hospital Clinicas Caracas & Policlinica Mendez Gimón, Caracas, Venezuela and Central University of Venezuela, Caracas, Venezuela

S-241 SIMULATION OF THE PRIMING PRINCIPLE

V. Nigrovic, S. B. Bhatt, A. Amann;
Medical University of Ohio, Toledo, Ohio

*** S-242 THE EFFECT OF CISATRACURIUM AND SUCCINYLCHOLINE UPON INTRAOCULAR PRESSURE FOLLOWING PROPOFOL INDUCTION OF GENERAL ANESTHESIA: DOES IT MATTER?**

**** P. Shah, A. M. Malik, A. R. Khan, N. Imami, M. Menon, M. Brown;**
Henry Ford Hospital, Detroit, Michigan

S-243 DOSE-RESPONSE RELATIONSHIP OF NONDEPOLARIZING MUSCLE RELAXANTS: COMPARISON OF SINGLE VERSUS CUMULATIVE DOSE TECHNIQUE USING SIMULATIONS

S. B. Bhatt, A. Amann, V. Nigrovic;
Medical University of Ohio, Toledo, Ohio

S-244 PRIMING MIVACURIUM: A COMPREHENSIVE EVALUATION

D. Steinberg, G. H. Steinberg;
Hospital Clinicas Caracas & Policlinica Mendez Gimón, Caracas, Venezuela and Central University of Venezuela, Caracas, Venezuela

S-245 SUCCINYLCHOLINE PRETREATMENT WITH ATRACURIUM: USE OF SPEED OF ACTION AND RESTRICTIVE METHOD FOR ASSESSMENT

D. Steinberg, G. H. Steinberg;
Hospital Clinicas Caracas & Policlinica Mendez Gimón, Caracas, Venezuela and Central University of Venezuela, Caracas, Venezuela

S-246 ROCURONIUM-MIVACURIUM: CUMULATION-ELIMINATION RELATIONSHIP?

D. Steinberg, G. H. Steinberg;
Hospital Clinicas Caracas & Policlinica Mendez Gimón, Caracas, Venezuela and Central University of Venezuela, Caracas, Venezuela

S-247 REVISED ALGORITHM FOR THE DELIVERY OF REMIFENTANIL BASED ON THE GRADIENT BETWEEN RESPONSE ENTROPY AND STATE ENTROPY

D. M. Mathews, P. M. Cirullo, C. L. Chang, G. G. Neuman;
St Vincent Catholic Medical Centers-St Vincent's Manhattan, New York, New York

*Best of Meeting

**Best of Section

**SUNDAY, MARCH 25 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Pharmacology – Clinical (3)

**Abstracts in Poster Discussion Round: S-248 – S-255
Presenters in attendance 10:15 –11:45 (note time)**

PR02-20

Poster Moderators:

Tong J. Gan, MB, BS, FRCA; Duke University Medical Center, Durham, North Carolina
Pratik Pandharipande, MD; Vanderbilt University, Nashville, Tennessee

Learner Objective: To discuss advances in the clinical application of new drugs and new knowledge of established drugs used in the operating room and perioperative period.

S-248 THE EFFECT OF METHODS OF ANESTHESIA ON GASTROINTESTINAL BOWEL FUNCTION AFTER COLONIC SURGERY.

K. Lee, Y. Kim;
InJe University Busan Paik Hospital, Busan, Republic of Korea

S-249 LACK OF EFFECT OF APREPITANT OR ITS PRODRUG FOSAPREPITANT ON QTC INTERVALS IN HEALTHY SUBJECTS

T. C. Marbury, J. J. Gambale, C. R. Shadle, B. Jin, D. Panebianco, G. Murphy;
Orlando Clinical Research Center, Orlando, Florida and Merck & Co., Inc., North Wales, Pennsylvania

***** S-250 DEXMEDETOMIDINE REDUCES THE REQUIREMENT OF IV -PCA FENTANYL FOR THE POSTOPERATIVE PAIN MANAGEMENT OF ABDOMINAL AORTIC ANEURISM GRAFTING.**

Y. Kasuya, H. Yogo, K. Hamada, M. Nomura, M. Ozaki;
Tokyo Women's Medical University, Tokyo, Japan

S-251 A STUDY OF PERI-INTUBATION & PERI-EXTUBATION HAEMODYNAMIC CHANGES AND POSTOPERATIVE ANALGESIC EFFICACY OF PERIOPERATIVE INTRAVENOUS INFUSION OF LIDOCAINE IN PATIENTS UNDERGOING LAPAROSCOPIC CHOLECYSTECTOMY

M. Maroof, R. M. Khan, V. Verma, S. Markewich, F. A. Khan, S. Dogra;
University Of North Carolina, Chapel Hill, North Carolina and Aligarh Muslim University, Aligarh, India

S-252 EFFECT OF REPARIXIN ON PLASMA NEUTROPHIL COUNT IN PATIENTS UNDERGOING ON-PUMP CORONARY ARTERY BYPASS SURGERY

M. Dworschak, E. Base, B. Birkenberg, B. Mora, B. Jilma, B. Steinlechner;
University Hospital Vienna, Vienna, Austria

S-253 EFFECT OF PREGABALIN ON PREOPERATIVE ANXIETY IN PATIENTS UNDERGOING ELECTIVE SURGERY PROCEDURES

B. Tufanogullari, K. Klein, P. White, J. Taylor;
University of Texas Southwestern Medical Center, Dallas, Texas

S-254 THE STUDY ON FEASIBILITY OF LABETALOL AND NICARDIPINE AS A PART OF ANESTHETICS

B. L. Chen, Q. S. Xue, J. Jin, B. W. Yu;
Ruijin Hospital, Shanghai, China

S-255 OXIDATIVE STATUS BIOMARKERS DURING HIGH VERSUS LOW DOSE PROPOFOL ANESTHESIA

S. Omar, M. Nader, H. H. El Sabea, Y. M. Samhan, G. El Fandy;
Theodor Bilharz Research Institute, Cairo, Egypt

***Kosaka Session

Critical Care Medicine & Trauma (1)

**Abstracts in Poster Discussion Round: S-57 – S-64
Presenters in attendance 3:00 – 4:30 (note time)**

PR02-21

Poster Moderators:

Balachundhar Subramaniam, MD; Harvard Medical School, Boston, Massachusetts
Michael H. Wall, MD; Southwestern Medical Center, Dallas, Texas

Learner Objective: To understand selected advances in the disciplines of organ system failure, monitoring and support.

S-57 PREDICTING FAILURE TO SURVIVE CARDIOPULMONARY RESUSCITATION IN INTENSIVE CARE: EVALUATION OF TWO MORBIDITY SCORES

K. O. Enohumah, M. Quint;
Regional Hospital Tullamore, Tullamore, Ireland and University Hospital, Goettingen, Germany

S-58 OUTCOME OF CARDIOPULMONARY RESUSCITATION IN INTENSIVE CARE UNIT IN A UNIVERSITY HOSPITAL.

K. O. Enohumah;
Regional Hospital Tullamore, Tullamore, Ireland

S-59 CRITICAL INCIDENTS/NEAR MISSES IN ACUTE INTENSIVE CARE UNIT.

S. Patel, S. Knight, T. Owen;
Royal Preston Hospital, Preston, United Kingdom and South Manchester University Hospital Trust, Manchester, United Kingdom

S-60 IS AN OLD COMPLICATION GETTING WORSE? TRENDS IN POSTOPERATIVE RESPIRATORY FAILURE DETERMINED BY A NATIONAL INPATIENT DATABASE

M. Nunnally, S. Roth, A. Tung;
University of Chicago, Chicago, Illinois

S-61 CT SCANS IN CRITICALLY ILL VENTILATED PATIENTS

S. K. Tirunagari, R. Achari, M. Bharamgoudar;
Milton Keynes General Hospital, Oxford School of Anaesthesia, Milton Keynes, United Kingdom and Milton Keynes General Hospital, Milton Keynes, United Kingdom

S-62 IS HYPOXIA A RELIABLE INDICATOR OF PULMONARY EMBOLISM?

G. D'souza, E. R. Viscusi, E. Smith, J. Parvizi;
Thomas Jefferson University, Philadelphia, Pennsylvania and Rothman Institute at Thomas Jefferson University Hospital, Philadelphia, Pennsylvania

S-63 HELLP SYNDROME :UTILITY OF SPECIFIC CLASSIFICATIONS AS PROGNOSTIC TOOLS.

R. Souissi, H. Souissi, Z. Haddad, K. Baccar, C. Kaddour, L. Skandrani;
National institut of neurology, Tunis, Tunisia and La Rabta Hospital, Tunis, Tunisia

S-64 EXPERIMENTAL STUDY OF A NEW DEVICE FOR AIRWAY MANAGEMENT DURING PERCUTANEOUS TRACHEOSTOMY

F. Arezki, L. Colotte, J. Joubert, A. Scholz, P. Trillaud;
CH du PARC, Sarreguemines, France

**SUNDAY, MARCH 25 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Critical Care Medicine & Trauma (2)

Abstracts in Poster Discussion Round: S-65 – S-72

Presenters in attendance 3:00 – 4:30

PR02-22

Poster Moderators:

Ozan Akca, MD; University of Louisville Hospital, Louisville, Kentucky

John F. Butterworth, MD; Indiana University School of Medicine,
Indianapolis, Indiana

Learner Objective: To understand selected advances in the disciplines of organ system failure, monitoring and support.

S-65 ASSOCIATION OF PERIOPERATIVE GLUCOSE LEVELS WITH POSTOPERATIVE INFECTIONS AND COMPLICATIONS FOLLOWING ORTHOPEDIC TRAUMA SURGERY.

*H. Nguyen, A. Garza, D. Gordon, E. Morales, A. Zahiruddin, E. Delphin;
UMDNJ, Newark, New Jersey*

**** S-66 IN VIVO TRACKING OF MACROPHAGE RECRUITMENT INTO THE INFLAMED PERITONEUM IN MICE BY FLUORESCENCE MEDIATED TOMOGRAPHY**

*J. Larmann, T. Frenzel, A. Hahnenkamp, A. Swintek, C. Bremer, G. Theilmeier;
University Hospital Münster, Münster, Germany*

S-67 DEVELOPMENT OF LATERAL FLOW DIAGNOSTIC DEVICE FOR RAPID DETECTION OF CEREBROSPINAL FLUID LEAKS

*S. Pentyala, L. Cipp, A. Veerajay, A. Bhatia, J. Ruggeri, J. Esfandiari;
Stony Brook Medical Center, Stony Brook, New York and Chembio Diagnostic Systems Inc, Medford, New York
Disclosure: Grants/Research Support - NYSTAR, Chembio Diagnostic Systems, Inc.*

S-68 STROKE AND PREGNANCY: ETIOLOGY, TIMING AND OUTCOME

*R. Souissi, H. Souissi, Z. Haddad, K. Baccar, C. Kaddour, L. Skandrani;
National Institut of Neurology, Tunis, Tunisia and La Rabta Hospital, Tunis, Tunisia*

S-69 PHYSIOLOGICAL CONCENTRATION OF 17-B-ESTRADIOL SUPPRESSES NF- κ B ACTIVATION MEDIATED BY BACTERIAL INFECTION

*Y. Asakura, Y. Fujiwara, N. Kato, H. Ito, Y. Sato, T. Komatsu;
Aichi Medical University, Nagoya, Japan*

S-70 HYPONATREMIA ABSORPTION SYNDROME IS NOT OBSERVED WITH PHOTO SELECTIVE VAPORIZATION OF THE PROSTATE.

*J. F. O'Hara, R. C. Hedgepeth, J. C. Ulchaker;
Cleveland Clinic, Cleveland, Ohio*

S-71 IMPACT OF MEDICAL COMPLICATION ON NEUROLOGICAL OUTCOME AND MICROALBUMINURIA AFTER ANEURYSMAL SUBARACHNOID HEMORRHAGE

*Y. Terao, K. Miura, T. Ichinomiya, T. Tanabe, M. Fukusaki, K. Sumikawa;
Nagasaki Rosai Hospital, Sasebo, Japan and Nagasaki University School of Medicine, Nagasaki, Japan
Disclosure: Grants/Research Support - Japan Labor Health and Welfare Organization*

S-72 KETAMINE HAS A FAVORABLE EFFECT ON AUTONOMIC CARDIOVASCULAR REGULATION DURING DECOMPENSATED HEMORRHAGIC SHOCK IN PIGS.

*A. I. Batchinsky, I. H. Black, L. C. Cancio;
U.S. Army Institute of Surgical Research, Ft. Sam Houston, Texas*

**Best of Section

Regional & Academics

Abstracts in Poster Discussion Round: S-256 – S-263

Presenters in attendance 3:00 – 4:30

PR02-23

Poster Moderators:

François Donati, PhD, MD, FRCPC; Université de Montreal, Montreal, Quebec, Canada

Peter Weber, MD; UKM Anaesthesia, Münster, Germany

Learner Objective: To understand recent advances in the use of regional anesthesia and academics for patients undergoing surgical procedures.

S-256 THE EFFECTS OF THE HEALTH INSURANCE PORTABILITY AND ACCOUNTABILITY ACT (HIPAA) ON RESEARCH STAFF WORKLOAD DURING A PROSPECTIVE, RANDOMIZED CLINICAL TRIAL

*B. A. Williams, J. J. Irrgang, M. T. Bottegal, K. A. Francis, M. T. Vogt;
University of Pittsburgh / UPMC South Side, Pittsburgh, Pennsylvania and University of Pittsburgh, Pittsburgh, Pennsylvania*

S-257 HOW TO DO ANESTHESIA RESEARCH AS THE MONEY DECLINES: WHERE IS THE BEST CHANCE FOR NIH DOLLARS?

*S. Roth, M. J. Angotti;
University of Chicago, Chicago, Illinois*

S-258 PERINEURAL CATHETER REMOVAL IN PATIENTS RECEIVING WARFARIN FOR THROMBOPROPHYLAXIS

*K. J. Neumann, D. M. Szczodry, S. Knowlton, J. E. Chelly;
University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania*

**** S-259 PREOPERATIVE GABAPENTIN PREVENTS INTRATHECAL MORPHINE-INDUCED PRURITUS AFTER ORTHOPEDIC SURGERY**

*M. J. Sheen, S. T. Ho, C. S. Wong;
TriService General Hospital, National Defense Medical Center, Taipei, Taiwan
Disclosure: Grants/Research Support - Tri-Service General Hospital*

S-260 PRACTICE AND PREFERENCE FOR REGIONAL ANESTHESIA/ANALGESIA TECHNIQUES AMONG ANESTHETISTS

*S. Patel, T. Vasu, M. Kakkar;
Royal Preston Hospital, Preston, United Kingdom; University Hospital of Wales, Cardiff, United Kingdom and Milton Keynes District General Hospital, Milton Keynes, United Kingdom*

S-261 WHAT IS THE RELATIONSHIP BETWEEN PRESSURE AND FLOW IN A PERIPHERAL NERVE BLOCK NEEDLE?

*M. B. Kerner, E. Viscusi, B. Hipszer;
Thomas Jefferson Univ Hosp, Philadelphia, Pennsylvania and Thomas Jefferson Univ, Philadelphia, Pennsylvania*

S-262 NEEDLE COSTS FOR ULTRASOUND GUIDED VERSUS STIMULATOR GUIDED NERVE BLOCKS

*J. Swenson, F. Buckley;
University of Utah, Salt Lake City, Utah
Disclosure: Grants/Research Support - I have spoken and received honoraria on behalf of GE Medical.*

S-263 ACTUAL CLINICAL INFUSION RATE OF DISPOSABLE INFUSORS FOR POST OPERATIVE EPIDURAL ANALGESIA

*T. Tanaka, S. Kagaya, H. Ryo, N. Sugai;
The Jikei University hospital, Tokyo, Japan and Chigasaki Tokushukai Medical Center, Kanagawa, Japan*

**Best of Section

SUNDAY, MARCH 25
MODERATED POSTER DISCUSSION
ROUNDS – GREAT HALL CENTER
POSTERS DISPLAYED – 8:00-4:30

Regional
Abstracts in Poster Discussion Round: S-264 – S-271
Presenters in attendance 3:00 – 4:30

PR02-24

Poster Moderators:

Daneshvari R. Solanki, MD; University of Texas, Galveston, Texas
Eugene R. Viscusi, MD; Jefferson Medical College, Philadelphia, Pennsylvania

Learner Objective: To understand recent advances in the use of regional anesthesia and academics for patients undergoing surgical procedures.

S-264 PERCUTANEOUS INTERCOSTAL CATHETERIZATION FOR CATHETERIZATION OF THE PARAVERTEBRAL SPACE

D. A. Burns, B. Ben-David, J. Billigen, J. E. Chelly;
University of Pittsburgh, Pittsburgh, Pennsylvania

S-265 VERTICAL INFRACLAVICULAR BLOCK VERSUS DOUBLE STIMULATION AXILLARY BLOCK IN HAND AND FOREARM SURGERY.

G. El-Sayed;
National Cancer Institute, Cairo, Egypt
Disclosure: Grants/Research Support - National Cancer Institute

S-266 POST-OPERATIVE PERIPHERAL NERVE BLOCKS DELAY PACU DISCHARGE

M. M. Salomone, M. E. Durieux;
University of Virginia, Charlottesville, Virginia

S-267 LOW ENTROPY OF RR INTERVAL PREDICTS HYPOTENSION AFTER SPINAL ANESTHESIA.

H. Ito, Y. Fujiwara, Y. Wakao, N. Kandatsu, T. Komatsu;
Aichi Medical University, Aichi, Japan

S-268 ADDING MEPERIDINE TO ROPIVACAINE FOR INTRAVENOUS REGIONAL ANESTHESIA

R. Pop, I. Acalovschi, A. Pausan, S. Radu;
University of Medicine, Cluj-Napoca, Romania

S-269 ULTRASOUND-GUIDED INTERSCALENE BLOCK IMPROVES SURGICAL CONDITIONS IN ARTHROSCOPIC SHOULDER SURGERY UNDER GENERAL ANESTHESIA.

Y. Fujiwara, Y. Asakura, Y. Shibata, S. Kurokawa, Y. Sato, T. Komatsu;
Aichi Medical University, Aichi, Japan

S-270 USE OF CLONIDINE AS AN ANALGESIC ADJUNCT ION PERIPHERAL NERVE BLOCKS.

E. Duggan, C. J. McCartney, E. Apatu;
Toronto Western Hospital, Toronto, Ontario, Canada

S-271 WITHDRAWN

The IARS would like to thank the following sponsors for providing equipment for the Workshops:

Simulation in Anesthesia Workshop

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MONDAY, MARCH 26

7:30 - 12:00 EXHIBITS – EVENT CENTER

7:30 - 8:00 CONTINENTAL BREAKFAST – EXHIBIT HALL

REVIEW COURSE LECTURES – GREAT HALL NORTH

8:00 - 8:45 **LUNG ISOLATION FOR THORACIC ANESTHESIA**

R16 **Peter D. Slinger, MD, FRCPC***

Professor of Anesthesia
Department of Anesthesiology
University of Toronto
Toronto, Ontario, Canada

Learner Objective: To understand the common clinical problems leading to difficulties with lung isolation for thoracic surgery. To appreciate recent advances in the airway equipment available for lung isolation.

8:50 - 9:35 **CONTINUOUS CATHETER TECHNIQUES FOR**

R17 **REGIONAL ANESTHESIA**

Francesca Kayser Enneking, MD
Associate Professor and Chief
Department of Anesthesia
University of Florida College of Medicine
Gainesville, Florida

Learner Objective: The speaker intends to convey the following information regarding continuous peripheral nerve blocks: indications, applications, and outcomes. In addition the lecture will touch on technologic limitations and future directions of these techniques.

9:30 - 10:15 COFFEE BREAK – EXHIBIT HALL

10:15 - 11:00 **OB ANESTHESIA**

R18 **Alan C. Santos, MD, MPH**

Chairman
Department of Anesthesiology
Ochsner Clinic Foundation
New Orleans, Louisiana

Learner Objectives: At the conclusion of the lecture the participant will be able to: 1) Review epidemiology and pathophysiology of preeclampsia; 2) Review management of eclampsia/HELLP syndrome; 3) Develop strategies for anesthetizing women with cardiovascular and coagulation changes associated with preeclampsia.

11:05 - 11:50 **AN INTRODUCTION TO CLINICAL USES OF**

R19 **ULTRASOUND IN ANESTHESIOLOGY**

Ken Johnson, MD*
Assistant Professor, Learned Family Associate Professorship
Director, Center for Human Simulation
Department of Anesthesiology
University of Utah
Salt Lake City, Utah

Learner Objective: This course will review current applications of ultrasound that are of interest to anesthesiologists to include ultrasound guided nerve blocks, ultrasound guided needle placement for vascular access, and echocardiography inside and outside the cardiac operating suite. This lecture will also provide an introduction to basic principles in ultrasound and Doppler technology that are important to consider when making clinical interpretations of ultrasound images and briefly introduce training requirements for anesthesiologists to become proficient in various aspects of perioperative sonography.

11:45 - 1:00 LUNCH – ON YOUR OWN

REVIEW COURSE LECTURES – GREAT HALL NORTH

1:00 - 1:45 **CPR 2007: THE SCIENCE BEHIND THE NEW AHA**
R20 **GUIDELINES**

Andrea Gabrielli, MD
Associate Professor of Anesthesiology and Surgery
Department of Anesthesiology
University of Florida College of Medicine
Gainesville, Florida

Learner Objectives: This lecture will summarize major changes and provide background information and detailed explanations contained in the 2005 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care. This lecture contains 2 major sections relevant to the IARS audience: 1) Major Changes Affecting All Rescuers 2) Changes in Healthcare Provider Basic and Advanced Life Support.

1:50 - 2:35 **PATIENT SAFETY IN OBSTETRIC ANESTHESIA**

R21 **David J. Birnbach, MD, MPH**
Professor and Executive Vice Chair
Department of Anesthesiology
University of Miami School of Medicine
Miami, Florida

Learner Objective: The participant will learn techniques which can improve the quality and safety of care of the obstetrical patient requiring epidural and/or general anesthesia.

2:35 - 3:00 SODA BREAK – GRAND FOYER

3:00 - 3:45 **ANALYZING RETROSPECTIVE DATA: THE CLINICAL**
R22 **IMPLICATIONS OF STATISTICAL METHODS**

Lee Fleisher, MD
Professor and Chair, Anesthesiology
Department of Anesthesiology
University of Pennsylvania
Philadelphia, Pennsylvania

Learner Objectives: 1) To discuss the interpretation of statistical methods in analyzing retrospective and large databases such as propensity analysis and multivariate modeling. 2) To discuss how the results of perioperative trials involving propensity analysis and multivariate modeling can be applied to clinical practice.

3:50 - 4:35 **NEUROLOGIC COMPLICATIONS OF**

R23 **CENTRONEURAXIAL ANESTHESIA**

Denise Wedel, MD
Professor of Anesthesiology
Department of Anesthesiology
Mayo Clinic
Rochester, Minnesota

Learner Objective: To review the data describing the risk of hemorrhagic and infectious complications associated with spinal and epidural blockade; and to discuss strategies for avoiding and managing these events.

PANELS – GREAT HALL EAST

8:00 - 9:30 **AMERICAN SOCIETY OF CRITICAL CARE ANESTHESIOLOGISTS (ASCCA) SESSION**
 PL16 **TISSUE PERFUSION IN SEPSIS: FROM SYSTEMIC HEMODYNAMICS TO THE MICROCIRCULATION AND ORGAN FUNCTION**



SYSTEMIC AND REGIONAL BLOOD FLOW IN SEPSIS

Jukka Takala, MD, PhD
 Professor of Intensive Care Medicine
 Department of Intensive Care Medicine, Inselspital
 University Hospital of Bern
 Bern, Switzerland

Learner Objective: To understand that sepsis results in redistribution of cardiac output and metabolic demands. To emphasize the relevance of cardiovascular reserves in providing adequate regional blood flow for vital organs.

DYSFUNCTION OF MICROCIRCULATION IN SEPSIS
Christopher Ellis, MD

Professor and Graduate Chair
 Department of Medical Biophysics
 University of Western Ontario, London, Ontario, Canada

Learner Objective: To make the audience aware that sepsis results in a failure of the microvasculature to regulate oxygen delivery as well as the occlusion of a large percentage of the capillary bed.

RENAL FAILURE IN SEPSIS: PRESSURE, BLOOD FLOW OR SOMETHING ELSE?

Robert N. Sladen, MD
 Vice Chairman and Professor of Anesthesiology
 Department of Anesthesiology, Columbia University
 New York, New York

10:15 - 11:45 **PERIOPERATIVE LUNG INJURY**
 PL17 **Peter D. Slinger, MD, FRCPC - Moderator**

PREVENTION OF PERIOPERATIVE MYOCARDIAL INFARCTION

James G. Ramsay, MD
 Anesthesiology Service Chief
 Emory University Hospital, Professor of Anesthesiology
 Emory University School of Medicine
 Atlanta, Georgia

Learner Objective: At the conclusion of the presentation, the participant will understand the mechanisms of altered gas exchange after cardiac surgery, and some techniques for prevention and management.

LUNG INJURY IN THORACIC SURGERY

Peter D. Slinger, MD, FRCPC*
 Professor of Anesthesia, Department of Anesthesiology
 University of Toronto, Toronto, Ontario, Canada

Learner Objective: To understand the common clinical problems leading to difficulties with lung isolation for thoracic surgery. To appreciate recent advances in the airway equipment available for lung isolation.

THORACIC PERIOPERATIVE LUNG INJURY: THE ICU PATIENT

Thomas Gal, MD
 Department of Anesthesiology
 University of Virginia Health System
 Charlottesville, Virginia

Learner Objective: The objective will be to provide the learner with a critical approach to concerns regarding development and treatment of perioperative lung injury as may be encountered in ICU patients.

PANELS – GREAT HALL EAST

1:00 - 2:30 **AMERICAN SOCIETY OF REGIONAL ANESTHESIA AND PAIN MEDICINE (ASRA) SESSION – BEST OF ASRA**
 PL18 **Terese Horlocker, MD* - Moderator**



HEMATOLOGIC, INFECTIOUS, AND NEUROLOGIC COMPLICATIONS OF REGIONAL ANESTHESIA

James Hebl, MD
 Department of Anesthesiology
 Mayo Clinic
 Rochester, Minnesota

ANTICOAGULATION AND NEURAXIAL BLOCK

Terese Horlocker, MD*
 Professor of Anesthesiology
 Department of Anesthesiology
 Mayo Clinic
 Rochester, Minnesota

Learner Objective: Discuss the frequency and risk factors for spinal hematoma and the anesthetic management of patients receiving hemostasis altering drugs in combination with neuraxial block.

HEMATOLOGIC, INFECTIOUS, AND NEUROLOGIC COMPLICATIONS OF REGIONAL ANESTHESIA: THE BEST OF ASRA PRACTICE ADVISORIES

Joseph Neal, MD
 Department of Anesthesiology
 Virginia Mason Medical Center
 Seattle, Washington

Learner Objective: Participants in this session will review the latest American Society of Regional Anesthesia and Pain Medicine (ASRA) Practice Advisories on the hematologic, infectious, and neurologic complications of regional anesthesia.

**MODERATED POSTER DISCUSSION ROUNDS
 GREAT HALL CENTER
 POSTERS DISPLAYED 8:00 - 4:30**

Discussion Time: 8:00 - 9:30	Page
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Education General (1)	40
Education General (2)	40

Discussion Time: 10:15 - 11:45	Page
Liver/Transplantation	41
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Genetics/Genomics	42

Discussion Time: 1:00 - 2:30	Page
Equipment (1)	42
Equipment (2)	43
Equipment (3)	43

Discussion Time: 3:00 - 4:30	Page
Neuroanesthesia	44
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Challenging Cases (3)	45

**KOSAKA ABSTRACT SESSION – 1:00 – 2:30
ROOM: SCOTLAND A/B BALLROOM**

The Kosaka Abstract Session PL24

The Kosaka Abstract Session is designed to promote interactions between Japanese anesthesiology researchers and their scientific colleagues throughout the world. The session highlights the eight top-scoring scientific abstracts submitted by Japanese researchers, paired with the top eight best abstracts submitted from around the world on the same topic. The top four abstracts will be presented orally (two Japanese and two non-Japanese) and then a panel of judges will present the Kosaka award to the best presentation (judged on the basis of underlying science, results, poster and oral presentations).

The Kosaka Award is given in honor of Dr. Kosaka who was the Chair and Professor of the Department of Anesthesiology and Resuscitology at Okayama University School of Medicine, Japan and who dedicated himself to establish the America-Japan Anesthesia Congress in order to promote science in anesthesia and friendship between IARS and the Japan Society for Clinical Anesthesia.

Judges: **Tatsuru Arai, MD, PhD**; Ehime University School of Medicine, Shigenobu, Ehime, Japan

Moderator

Adrian W. Gelb, MB, ChB; University of California, San Francisco, California

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

The Kosaka Session Abstracts are listed on page 36.

PANELS – GREAT HALL EAST

**3:00 - 4:30 SOCIETY OF CARDIOVASCULAR
PL19 ANESTHESIOLOGISTS (SCA) SESSION**



PERIOPERATIVE BETA BLOCKADE: THE EARLY YEARS

Hans-Joachim Priebe, MD
Anästhesiologische Universitätsklinik
Albert-Ludwig Universität
Freiburg, Germany

PERIOPERATIVE BETA BLOCKADE: FROM 2000 ONWARDS

Martin J. London, MD
Professor of Clinical Anesthesia
Department Anesthesia and Perioperative Care
University of California, San Francisco
San Francisco, California

REVASCULARIZATION STRATEGIES: NOT DEAD YET!

Giora Landesberg, MD, DSc, MBA
Associate Professor
Anesthesiology and Critical Care Medicine
Hebrew University - Hadassah Medical Center
Jerusalem, Israel

Learner Objective: The presentation will discuss publications from before the year 2000 on the effectiveness of perioperative beta-blocker therapy in non-cardiac surgery. Based on the data analysis of these publications, the audience will be able to judge the degree of evidence for the effectiveness of perioperative beta-blocker therapy in non-cardiac surgery up to the year 2000.

PANELS – GREAT HALL WEST

**8:00 - 9:30 SOCIETY FOR OBSTETRIC ANESTHESIA AND
PL20 PERINATOLOGY (SOAP)
SESSION – CONTROVERSIES
IN OBSTETRIC ANESTHESIA**



David J. Wlody, MD - SOAP President - Moderator
Clinical Associate Professor and
Vice Chair for Clinical Affairs
Department of Anesthesiology
State University of New York-Downstate Medical Center
Brooklyn, New York

EPHEDRINE VS. PHENYLEPHRINE

Tony Gin, MD, FRCA, FANZCA
Department of Anesthesia and Intensive Care
Chinese University of Hong Kong
Prince of Wales Hospital
Hong Kong, China

Learner Objective: Understand the pathophysiology of hypotension during regional anesthesia, the pharmacological differences between ephedrine and phenylephrine, and the reasons for choosing between these two drugs to treat hypotension.

USE OF SPINAL ANESTHESIA FOR CESAREAN SECTION IN SEVERE PRE-ECLAMPSIA

Alan C. Santos, MD, MPH
Chairman
Department of Anesthesiology
Ochsner Clinic Foundation
New Orleans, Louisiana

Learner Objectives: 1) Discuss hemodynamic changes with preeclampsia; 2) Review preparation of preeclamptic women for regional anesthesia; 3) Discuss the use of spinal anesthesia in preeclamptic women.

SUPPLEMENTAL OXYGEN DURING CESAREAN SECTION

Joy L. Hawkins, MD
Director of Obstetric Anesthesia
Professor of Anesthesiology
Department of Anesthesiology
University of Colorado School of Medicine
Denver, Colorado

MONDAY, MARCH 26 – Kosaka Session Abstracts

Japanese Researcher Abstracts (listed by display #'s)

Non-Japanese Researcher Abstracts (listed by display #'s)

<p>1A S-17 MECHANISMS BEHIND THE ACTION OF ETOMIDATE ON VASCULAR REACTIVITY IN ISOLATED RAT MESENTERIC RESISTANCE ARTERIES <i>K. Shirozu, T. Akata, J. Yoshino, H. Setoguchi, K. Morikawa, S. Takahashi;</i> <i>Kyushu University Hospital, Fukuoka, Japan</i></p>	<p>1B S-33 NON-INVASIVE IN VIVO OPTICAL TRACKING OF MACROPHAGE RECRUITMENT TO ATHEROSCLEROTIC INJURIES USING FLUORESCENCE MEDIATED TOMOGRAPHY IN MICE <i>T. Frenzel, J. Larmann, M. Schmitz, G. Theilmeier, C. Bremer;</i> <i>University Hospital Münster, Münster, Germany</i></p>
<p>2A S-127 RELIABILITY OF TEMPERATURES MEASURED AT STANDARD MONITORING SITES AS AN INDEX OF BRAIN TEMPERATURE DURING DEEP HYPOTHERMIC CARDIOPULMONARY BYPASS <i>H. Setoguchi, T. Akata, K. Shirozu, J. Yoshino;</i> <i>Kyushu University Hospital, Fukuoka, Japan; Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan and Kyushu Medical Center, Fukuoka, Japan</i></p>	<p>2B S-117 AN IMPROVED SENSOR FOR MONITORING RESPIRATION IN PEDIATRIC PATIENTS. <i>M. R. Macknet, P. Kimball-Jones, R. L. Applegate II;</i> <i>Loma Linda University, Loma Linda, California</i></p>
<p>3A S-171 NICORANDIL, A K+ATP CHANNEL OPENER, INHIBITS MUSCARNIC ACTIVATION OF EXTRACELLULAR SIGNAL-REGULATED KINASES (ERK) IN PC12 CELLS <i>K. Niinomi, H. Iida, S. Dohi;</i> <i>Daiyukai General Hospital, Ichinomiya, Japan, Gifu University Graduate School of Medicine, Gifu, Japan</i></p>	<p>3B S-169 MINOCYCLINE DOES NOT REDUCE HYPERALGESIA IN A PLANTAR INCISION PAIN MODEL <i>J. S. Kroin, A. Buvanendran, K. J. Tuman;</i> <i>Rush Medical College, Chicago, Illinois</i></p>
<p>4A S-194 FACTORS OF FAILURE IN EPIDURAL BLOOD PATCH FOR PATIENTS WITH CSF LEAK <i>S. Ishikawa, M. Yokoyama, S. Mizobuchi, H. Hashimoto, K. Morita;</i> <i>Fukuyama Kohnan Hospital, Fukuyama, Japan and Okayama University Medical School, Okayama, Japan</i></p>	<p>4B S-193 ADMINISTRATION OF LOW-DOSE ORAL NALTREXONE TO ENHANCE ANALGESIA IN PATIENTS RECEIVING CONTINUOUS INTRATHECAL MORPHINE FOR CHRONIC PAIN: A RANDOMIZED, DOUBLE-BLIND, PROSPECTIVE PILOT STUDY <i>S. Hamann, P. A. Sloan;</i> <i>University of Kentucky, Lexington, Kentucky</i></p>
<p>5A S-219 LIDOCAINE MODULATES VOLTAGE-GATED PROTON CHANNELS IN RAT MICROGLIA <i>T. Mori, M. Kuno, M. Nakanishi, K. Nishikawa, M. Sawada, A. Asada;</i> <i>Osaka City University Graduate School of Medicine, Osaka, Japan, and Nagoya University, Nagoya, Japan</i></p>	<p>5B S-213 TOWARD THE MECHANISM OF ANESTHETIC-INDUCED AMNESIA: ANESTHETICS SHUT DOWN MEMORY CONSOLIDATION BY INHIBITING HIPPOCAMPAL ARC-PROTEIN SYNTHESIS IN THE RAT. <i>M. T. Alkire, T. Beydoun, T. Miyashita, J. McReynolds, J. Guzowski;</i> <i>University of California, Irvine, Orange, California</i></p>
<p>6A S-250 DEXMEDETOMIDINE REDUCES THE REQUIREMENT OF IV -PCA FENTANYL FOR THE POSTOPERATIVE PAIN MANAGEMENT OF ABDOMINAL AORTIC ANEURISM GRAFTING. <i>Y. Kasuya, H. Yogo, K. Hamada, M. Nomura, M. Ozaki;</i> <i>Tokyo Women's Medical University, Tokyo, Japan</i></p>	<p>6B S-239 ELECTROPHYSIOLOGIC MONITORS AS PREDICTORS OF NOCICEPTION DURING SEVOFLURANE ANESTHESIA IN VOLUNTEERS <i>D. K. Gupta, S. C. Manyam, K. B. Johnson, J. L. White, T. D. Egan;</i> <i>Northwestern University Feinberg School of Medicine, Chicago, Illinois and University of Utah, Salt Lake City, Utah</i></p>
<p>7A S-49 RELATIONSHIP BETWEEN INTRAOPERATIVE TRANSCRANIAL MYOGENIC MOTOR EVOKED POTENTIALS MONITORING AND ISCHEMIC SPINAL CORD INJURY AFTER DESCENDING THORACIC OR THORACOABDOMINAL AORTIC SURGERY. <i>M. Kakinohana, M. Oshiro, N. Noguchi, C. Fukumoto, J. Okubo, K. Sugahara;</i> <i>University of the Ryukyus, Okinawa, Japan</i></p>	<p>7B S-50 MORPHINE ATTENUATES THE INFLAMMATORY RESPONSE TO CARDIOPULMONARY BYPASS <i>G. S. Murphy, J. W. Szokol, J. H. Marymont, M. J. Avram, J. S. Vender;</i> <i>Evanston Northwestern Healthcare, Evanston, Illinois and Northwestern University, Chicago, Illinois</i></p>
<p>8A S-152 PITUITARY APOPLEXY PRECIPITATING DIABETES INSIPIDUS AFTER LIVING DONOR LIVER TRANSPLANTATION <i>T. Matsusaki, H. Morimatsu, R. Kaku, M. Matsumi, K. Morita;</i> <i>Okayama University Medical School, Okayama, Japan</i></p>	<p>8B 1280 PERSISTENTLY ELEVATED ARTERIAL LACTATE AS A HERALD OF HYPOXIC HEPATITIS <i>C. Mai, G. Miller, R. J. Azocar;</i> <i>Boston University Medical Center, Boston, Massachusetts</i></p>

PANELS – GREAT HALL WEST

3:00 - 4:30 **INFORMATION TECHNOLOGY - WHAT IS NEW?**
PL21

David Reich, MD - Moderator

SELECTING YOUR ELECTRONIC MEDICAL RECORDS

David Reich, MD*

Horace W. Goldsmith Professor and Chair
Department of Anesthesiology
Mount Sinai School of Medicine
New York, New York

Learner Objectives: 1) To understand research applications of anesthesia information management systems; 2) To learn how to apply the data in anesthesia information systems for performance improvement; 3) To understand the use of anesthesia information management systems data.

**SMART ALARMS IN ANESTHESIA:
STATE OF THE ART**

Richard McNeer, MD, PhD

Assistant Professor
Department of Anesthesiology, Preoperative Medicine,
and Pain Management
University of Miami School of Medicine
Miami, Florida

Learner Objectives: 1) To be able to outline the multi-factorial nature of the alarm problem; 2) To understand how audible alarm urgency-mismatch can adversely affect patient monitoring; 3) To appreciate the ways in which multiple sounds can interact to influence the perception of patient alarms.

HOW TO AVOID BEING SUED USING EMR?

Timothy McDonald, MD

Associate Professor
Department of Anesthesiology
University of Illinois, Chicago
Chicago, Illinois

Learner Objectives: Participant will be able to describe the legal and ethical pitfalls associated with the use of the electronic medical record. Participant will be able to weigh the malpractice related risks and benefits of the use of an automated anesthesia record keeping system within their organization.

**APPLY HUMAN FACTORS AND USABILITY TOOLS
OPTIMIZE THE SELECTION OF ELECTRONIC
HEALTH INFORMATION TOOLS**

Paul Barach, MD

Associate Professor, Department of Anesthesia
College of Medicine and Public Health
University of South Florida
Miami, Florida

Learner Objectives: 1) How health care professionals interact with technology and medical devices; 2) Identify how technology and design influence human performance and patient care; 3) Discuss the concepts, theories supporting human factors and usability tools in selecting technology.

PANELS – GREAT HALL WEST

1:00 - 2:30 **HOW TO GET A MANUSCRIPT PUBLISHED**
PL22

Debra A. Schwinn, MD - Moderator

James B. Duke Professor of Anesthesiology,
Professor of Pharmacology, Medicine (Cardiology) & Surgery
Program Director for Cardiovascular Genomics,
Duke Institute for Genome Sciences & Policy
Duke University Medical Center
Durham, North Carolina

**NUTS AND BOLTS OF WRITING A SCHOLARLY
MANUSCRIPT: HOW TO GET STARTED**

Joseph M. Neal, MD

Editor-in-Chief,
Regional Anesthesia & Pain Medicine Anesthesiology
Virginia Mason Clinic
Seattle, Washington

**WHERE DO I SUBMIT AND WHAT COMMON
PITFALLS SHOULD I AVOID?**

Mark F. Newman, MD

Co-Director, IARS Global Perioperative Research
Organization (GPRO)
Chairman of Anesthesiology
Duke University Medical Center
Durham, North Carolina

**HOW TO AVOID COMMON STATISTICAL ERRORS IN
CLINICAL MANUSCRIPTS**

Keith M. Gregg, PhD

Anesthesia & Analgesia Statistical Editor
Executive Director of Statistics
Premier Research
Goodyear, Arizona

**HOW TO WRITE AN OUTSTANDING "LETTER TO
THE EDITOR"**

Steven L. Shafer, MD*

Editor-in-Chief, *ANESTHESIA & ANALGESIA*
Professor of Anesthesiology
Department of Anesthesiology
Stanford University
Palo Alto, California

Learner Objectives: After this panel the participant should be able to: 1) Describe basic elements present in a successful original manuscript and letter to the editor; 2) Describe typical pitfalls, and how to circumvent them, in summarizing scientific findings in written format; 3) Describe common statistical pitfalls and solutions when analyzing and presenting scientific data.

PANELS – GREAT HALL WEST

3:00 - 4:30
PL23

**INTERNATIONAL SOCIETY FOR ANAESTHETIC
PHARMACOLOGY (ISAP) SESSION: FIRST PERSON
EXPERIENCES WITH ANESTHETIC
PHARMACOLOGY**



Steven L. Shafer, MD - Moderator

**TRAMADOL VS. MULTIMODAL PAIN
MANAGEMENT**

Michel Struys, MD - ISAP President
Department of Anesthesia
Ghent University
Gent, Belgium

TIVA VS. INHALATIONAL ANESTHESIA

Pamela Flood, MD
Department of Anesthesiology
Columbia University
New York, New York

**PUTTING YOUR MONEY WHERE YOUR MOUTH IS:
AN ANESTHESIOLOGIST GOES UNDER**

Talmage Egan, MD
Professor of Anesthesiology
Department of Anesthesiology
University of Utah
Salt Lake City, Utah

**FROM ETHER/CHLOROFORM TO PROPOFOL/
DESFLURANE**

James Bovill, MD
Department of Anesthesiology
Leiden University Medical Centre
Leiden, The Netherlands

INTRAOPERATIVE AWARENESS

Steven L. Shafer, MD*
Editor-in-Chief, *ANESTHESIA & ANALGESIA*
Professor of Anesthesiology
Department of Anesthesiology
Stanford University
Palo Alto, California

Learner Objective: The panel will discuss anesthetic pharmacology from an unusual perspective: that of the patient. Each panelist will describe a personal experience with anesthesia, and then the pharmacological considerations of that experience. Participants will learn what it was like for patients before the introduction of modern pharmacology into anesthetic practice. Specifically, panelists will present how the experience has been improved by the introduction of intravenous anesthetics, more rapidly acting inhaled anesthetics, and multimodal post-operative pain management.

**NERVE BLOCK WORKSHOP
KNIGHTS HALL
8:00 - 11:00 and 2:00 - 5:00**

Please note that **Workshops** will have limited attendance and are available to registrants on a **first-come, first-served** basis. **There is a non-refundable \$50.00 registration fee to attend each workshop.**

8:00 - 11:00 – W05
AND
2:00 - 5:00 – W06

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

Andrew D. Rosenberg, MD
Chairman
Department of Anesthesiology
Hospital for Joint Diseases
Orthopaedic Institute
New York, New York

Robert Altman, MD
New York, New York

Vincent Chan, MD
Professor
Department of Anesthesiology
University of Toronto
Toronto, Ontario, Canada

Maki Morimoto, MD
Assistant Professor
Department of Anesthesiology
New York University Medical Center
New York, New York

Santhanam Suresh, MD
Co-Director, Pain Management
Services
Children's Memorial Hospital
Assistant Professor of Anesthesiology
Northwestern University SOM
Chicago, Illinois

Daniel Wambold, MD
The Valley Hospital
Ridgewood, New Jersey

The Nerve Blocks Workshop will rotate participants through “hands-on” stations utilizing live models, handouts and audiovisual aids. Participants will rotate every 35 minutes to attend each of the four sessions. Each group is limited to 15 participants (60 Workshop participants total). There will be a 30-minute discussion and summation at the end. The stations are:

- Station I: Ultrasound for Upper Extremity
- Station II: Nerve Stimulation for Upper Extremity
- Station III: Ultrasound and Nerve Stimulation for Lower Extremity
- Station IV: Simulators and Equipment

Learner Objective: Upon completion of this workshop the participant will have an improved understanding of how to perform peripheral nerve blocks utilizing the nerve stimulator technique and the ultrasound guided technique for nerve block. The participant will have hands-on experience with simulators for upper extremity blocks utilizing both nerve stimulator and ultrasound simulators.

**MONDAY, MARCH 26 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Education & Patient Safety

**Abstracts in Poster Discussion Round: S-81 – S-88
Presenters in attendance 8:00 – 9:30**

PR03-25

Poster Moderators:

Sherif Affifi, MD; Northwestern University School of Medicine, Chicago, Illinois

Sugantha Sundar, MD; Harvard Medical School, Boston, Massachusetts

Learner Objective: To understand selected advances in education and patient safety.

- S-81 CAN ANESTHESIA ADVERSE EVENTS BE ELECTRONICALLY EXTRACTED?**
T. E. Powell;
Miller School of Medicine/University of Miami, Miami, Florida
- S-82 PATIENT SAFETY; INSTANT VOICE OVER INTERNET COMMUNICATIONS.**
R. B. Silverman, J. Jacque, C. Mijares;
University of Miami, Miami, Florida
- S-83 A MODEL FOR BUILDING A STANDARDIZED HAND-OFF PROTOCOL FOR ANESTHESIA CARE**
V. Arora, J. Johnson, P. Barach;
University of Chicago, Chicago, Illinois and University of Miami, Miami, Florida
- S-84 THE EFFECT OF PROLONGED STEEP TRENDELENBURG POSITION ON INTRAOCULAR PRESSURE DURING ROBOTIC-ASSISTED PROSTATECTOMY: DOES IT CHANGE OVER TIME?**
A. M. Malik, A. R. Khan, P. Shah, N. Imami, M. Menon, M. Brown;
Henry Ford Hospital, Detroit, Michigan
- S-85 CHANGES IN INTRAOCULAR PRESSURE IN PATIENTS UNDERGOING ROBOTIC-ASSISTED PROSTATECTOMY: DOES MEAN ARTERIAL PRESSURE HAVE A ROLE?**
A. M. Malik, A. R. Khan, P. Shah, N. Imami, M. Menon, M. Brown;
Henry Ford Hospital, Detroit, Michigan
- S-86 THE IMPACT OF ADVERSE EVENT NARRATIVES IN ELECTRONIC MEDICAL RECORDS FOR TRACKING ADVERSE EVENTS**
T. Powell, P. Barach;
University of Miami, Miami, Florida
- S-87 ARE WE AS GOOD AS WE THINK? TRENDS IN ANESTHETIC COMPLICATION RATES DETERMINED BY A NATIONAL INPATIENT DISCHARGE DATABASE**
S. Roth, A. Tung, Y. Shen;
University of Chicago, Chicago, Illinois
- S-88 APPLYING PROBABLISTIC FAULT TREE ANALYSIS IN HEALTH CARE: MODELING MEDICAL ERRORS**
J. Wilwerding, P. Barach;
Sphere Institute, Burlingame, California and University of Miami, Miami, Florida

Education Teaching Tools

**Abstracts in Poster Discussion Round: S-89 – S-96
Presenters in attendance 8:00 – 9:30**

PR03-26

Poster Moderators:

Jung T. Kim, MD; New York University School of Medicine, New York, New York

Michael H. Wall, MD; Southwestern Medical Center, Dallas, Texas

Learner Objective: to understand selected advances in educational teaching tools.

- ** S-89 SURVEY OF PROPOFOL ABUSE IN ACADEMIC ANESTHESIA PROGRAMS: A FINAL REPORT**
P. E. Wischmeyer, B. Johnson, H. Bachman, C. Dingmann, Z. Tran, T. Henthorn;
University of Colorado Health Sciences Center, Denver, Colorado
- S-90 ASSESSMENT OF CLINICAL PERFORMANCE OF FIRST RESPONDERS DURING A SIMULATED RESPIRATORY ARREST: A COMPARISON OF INTERNS TO SENIOR RESIDENTS**
A. Burden, G. Staman, M. C. Torjman, C. Bekes, M. Kirchoff, C. Blatz;
Cooper University Hospital, Robert Wood Johnson Medical School - UMDNJ, Camden, New Jersey
- S-91 PERIOPERATIVE REMOVABLE DENTAL APPLIANCES - ANESTHESIA RESIDENCIES DO NOT PRACTICE WHAT THE JOINT COMMISSION PREACHES**
D. New, A. Kuppusamy, D. Mann, D. Hall;
UMDNJ-Robert Wood Johnson Medical School, New Brunswick, New Jersey
- S-92 SURVEY OF INHALED ANESTHETIC ABUSE IN ACADEMIC ANESTHESIA PROGRAMS**
J. Wilson, H. Bachman, B. Johnson, E. Luzier, T. Henthorn, P. E. Wischmeyer;
University of Colorado Health Sciences Center, Denver, Colorado
- S-93 INTRAVENOUS CANNULATION SIMULATOR LIMB EXPERIENCE IMPROVES MEDICAL STUDENT SUCCESS RATE**
S. F. Cassingham, B. Shah, A. Ligeti, F. Zavisca, R. Cork, B. Bregman;
Louisiana State University Health Science Center in Shreveport, Shreveport, Louisiana
- S-94 USE OF AN AUDIENCE RESPONSE SYSTEM TO FACILITATE RESIDENT AND FACULTY INVOLVEMENT IN THE DEVELOPMENT OF ASSESSMENT TOOLS FOR THE ACGME GENERAL COMPETENCIES**
R. Fragneto, R. Schell, E. Bowe;
University of Kentucky College of Medicine, Lexington, Kentucky
- S-95 DIAGNOSTIC ACCURACY OF ADVANCED COMPETENCIES IN PERIOPERATIVE ECHOCARDIOGRAPHY: PRELIMINARY DATA FROM EXECUTIVE MEDICAL FELLOWSHIP STUDENTS**
D. P. Vezina, G. Desjardins, D. Odell, J. W. Smith, H. E. Cobb, T. H. Stanley;
University of Utah, Salt Lake City, Utah and NAPE, Inc., Salt Lake City, Utah
Disclosure: Stock Shareholder - Nape, Inc.
- S-96 THE EFFECTIVENESS OF A NOVEL APPROACH ON EEG INSTRUCTION FOR ANESTHESIOLOGY RESIDENTS**
D. F. Chau, M. Bensalem-Owen, B. G. Fahy;
University of Kentucky Medical Center, Lexington, Kentucky

**Best of Section

**MONDAY, MARCH 26 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Education General (1)

**Abstracts in Poster Discussion Round: S-97 – S-104
Presenters in attendance 8:00 – 9:30**

PR03-27

Poster Moderators:

Lebron Cooper, MD; Ochsner Health System; New Orleans, Louisiana
Istvan Batai, MD; University of Pecs, Pecs, Hungary

Learner Objective: To understand selected advances in education.

- S-97 TEACHING NEW ROBOTS OLD TRICKS FOR EPIDURAL PLACEMENT USING A VIRTUAL REALITY SIMULATOR**
R. Glassenberg, D. Gupta;
Northwestern University, Chicago, Illinois
- S-98 APPLICATION OF GAME THEORY IMPROVED POSTANESTHETIC OUTCOMES IN PERIOPERATIVE ANESTHETIC MANAGEMENT MODELS - SIMULATION STUDY**
H. Yamaguchi, H. Tsubaki, H. Yanai, H. Furukawa;
Tsukuba Medical Center Hospital, Tsukuba, Japan; University of Tsukuba, Tokyo, Japan and Iwaki Kyoritsu General Hospital, Iwaki, Japan
- S-99 META-ANALYSIS OF DIAGNOSTIC TESTS: TWO-STAGE HIERARCHIC MODEL FOR COMBINING LIKELIHOOD RATIOS FOR POSITIVE AND NEGATIVE TEST RESULTS**
S. Mantha, E. Mascha, J. F. Foss, J. E. Ellis, M. F. Roizen;
Nizam's Institute of Medical Sciences, Hyderabad, India; Cleveland Clinic Foundation, Cleveland, Ohio and University of Chicago, Chicago, Illinois
- S-100 THE CLINICAL EFFICIENCY OF NEW GENERATION CO₂ ABSORBENTS: AMSORB PLUS AND SODASORB LF**
F. V. Cobos II, R. Shaffer, J. Tinker;
University of Nebraska Medical Center, Omaha, Nebraska
- S-101 UNINTENTIONAL REDUCTIONS OF FLOW RATES IN CENTRAL AND PERIPHERAL IV CATHETERS**
F. V. Cobos II, J. Tinker; K. DeFreece;
University of Nebraska Medical Center, Omaha, Nebraska and University of Nebraska, Lincoln, Nebraska
- S-102 DOES A "DIFFICULT AIRWAY" TRANSLATE TO LONGER INDUCTION?**
S. Kumaraswami, N. F. Holt, A. Mukherjee, G. A. Watrous, P. G. Barash, D. G. Silverman;
Yale University School of Medicine, New Haven, Connecticut
- S-103 ON-LINE PATIENT EDUCATION AND INFORMED CONSENT FOR OBSTETRICAL PATIENTS**
J. Waters, L. Handley, J. P. Williams;
UPMC, Pittsburgh, Pennsylvania
- S-104 THE ROLE OF HAND-OFFS: ASSESSING THE ISSUES OF COMMUNICATING PATIENT CARE INFORMATION IN CRITICAL CARE SETTINGS**
P. Barach;
University of Miami, Miami, Florida

Education General (2)

**Abstracts in Poster Discussion Round: S-105 – S-112
Presenters in attendance 8:00 – 9:30**

PR03-28

Poster Moderators:

Kathryn P. King, MD; Duke University Medical Center; Durham, North Carolina
Michael C. Lewis, MD; University of Miami, Miami, Florida

Learner Objective: To understand selected advances in education.

- S-105 FLOW RESTRICTIONS ASSOCIATED WITH SWAN-GANZ AND SINGLE-LUMEN INFUSION CATHETERS IN PERCUTANEOUS SHEATH INTRODUCERS**
F. V. Cobos II, M. Christo;
University of Nebraska Medical Center, Omaha, Nebraska
- S-106 CLEANER, DIRTIER, OR SICKER? TRENDS IN POSTOPERATIVE SEPSIS DETERMINED BY A NATIONAL INPATIENT DATABASE**
Z. Zafirova, A. Tung, S. Roth;
University of Chicago, Chicago, Illinois
- S-107 WITHDRAWN**
- S-108 THE INCIDENCE OF POSTOPERATIVE NAUSEA AND VOMITING IN RECOVERY ROOM IS SIGNIFICANTLY LOWER THAN PREVIOUSLY REPORTED**
J. Meng, J. Subramanian, S. Pohar, G. P. Joshi;
University of Texas Southwestern Medical Center, Dallas, Texas
- S-109 DIAGNOSTIC ACCURACY OF CORE COMPETENCIES IN PERIOPERATIVE ECHOCARDIOGRAPHY: PRELIMINARY DATA FROM EXECUTIVE MEDICAL FELLOWSHIP STUDENTS**
D. P. Vezina, G. Desjardins, D. Odell, J. W. Smith, H. E. Cobb, T. H. Stanley;
University of Utah, Salt Lake City, Utah and NAPE, Inc., Salt Lake City, Utah
Disclosure: Stock Shareholder - Nape, Inc.
- S-110 THE PERCEPTION OF THE PERIOPERATIVE EXPERIENCE IN RELATION TO RACE, SOCIOECONOMIC STATUS, AGE, AND GENDER.**
J. Asnis, A. Huang, S. Nyshadham, M. Cortes, C. Scher;
Mount Sinai School of Medicine, New York, New York
- S-111 UTILIZING RECORDED COMMANDS FOR A BILINGUAL PATIENT DURING EMERGENCE FROM ANESTHESIA**
S. M. Fuller, R. T. Foley, B. Siu, D. B. Glick;
University of Chicago, Chicago, Illinois
- S-112 MANAGEMENT OF LUMBAR DRAINS AFTER THORACIC AORTA ANEURYSM SURGERY**
J. Cohen, A. Kuppasamy, D. Mann, D. Hall;
UMDNJ-Robert Wood Johnson Medical School, New Brunswick, New Jersey

**MONDAY, MARCH 26 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Liver/Transplantation

**Abstracts in Poster Discussion Round: S-145 – S-152
Presenters in attendance 10:15 – 11:45**

PR03-29

Poster Moderators:

Marie Csete, MD, PhD; Emory University Hospital, Atlanta, Georgia
David Wax, MD; Mt. Sinai School of Medicine, New York, New York

Learner Objective: The participant will learn about current research on patients undergoing liver surgery and liver transplantation.

**** S-145 LIVER OUTFLOW IN LRLT PATIENTS IS NOT HARMED BY INCREASED PEEP!**

F. H. Saner, G. Pavlakovic, S. Nadalin, A. Radtke, M. Malago, C. E. Broelsch;
University Essen, Essen, Germany and University Goettingen, Goettingen, Germany

S-146 ISOFLURANE PRETREATMENT PROTECTS RAT LIVERS FROM ISCHEMIA/REPERFUSION INJURY BY INDUCTION OF HEME OXYGENASE-1

R. Schmidt, E. Tritschler, A. Hoetzel, K. K. Geiger, B. H. Pannen;
University Hospital Freiburg, Freiburg, Germany

S-147 A COMPARISON OF PRETRANSPLANT MELD SCORES AND MORTALITY OF ADULTS RECEIVING LIVING RELATED LIVER TRANSPLANTS VERSUS CADAVERIC LIVER TRANSPLANTS: A SINGLE CENTER STUDY.

D. Beebe, J. Hutchins, A. Gruessner, R. Gruessner;
University of Minnesota, Minneapolis, Minnesota

S-148 NON-INVASIVE MONITORING OF INTRACRANIAL PRESSURE IN PATIENTS WITH ACUTE LIVER FAILURE

S. Aggarwal, D. Brooks, J. F. Patzer;
University of Pittsburgh Medical Centre, Wexford, Pennsylvania and University of Pittsburgh Medical Centre, Pittsburgh, Pennsylvania

S-149 Impact of preservation solution and ischemia time on reperfusion instability in orthotopic liver transplantation

D. T. Jones, R. S. Mangus, S. Kinsella, J. A. Fridell, R. M. Vianna, A. J. Tector;
Indiana University, School of Medicine, Indianapolis, Indiana

S-150 MORTALITY IN ADULT PATIENTS UNDERGOING ORTHOTOPIC LIVER TRANSPLANTATION IS PREDICTED BY INTRAOPERATIVE TRANSFUSION OF PACKED RED BLOOD CELLS AND FRESH FROZEN PLASMA BUT NOT BY MODEL FOR END STAGE LIVER DISEASE (MELD) SCORE

T. M. Oravitz, M. M. Wagoner, M. E. Akoa, T. V. Cacciarelli;
VA Pittsburgh Healthcare System, Pittsburgh, Pennsylvania and University of Pittsburgh, Pittsburgh, Pennsylvania

S-151 HISTADINE-TRYPTOPHAN-KETOGLUTARATE (HTK) VERSUS UNIVERSITY OF WISCONSIN(UW) SOLUTION FOR INTESTINAL AND MULTIVISCERAL GRAFTS : INTRA-OPERATIVE OBSERVATIONS

S. Aggarwal, G. Bond, K. Abu-Elmagd, M. Ezzelarab, R. M. Planinsic;
University of Pittsburgh Medical Centre, Wexford, Pennsylvania and University of Pittsburgh Medical Centre, Pittsburgh, Pennsylvania

***** S-152 PITUITARY APOPLEXY PRECIPITATING DIABETES INSIPIDUS AFTER LIVING DONOR LIVER TRANSPLANTATION**

T. Matsusaki, H. Morimatsu, R. Kaku, M. Matsumi, K. Morita;
Okayama University Medical School, Okayama, Japan

**Best of Section

***Kosaka Session

Economics

**Abstracts in Poster Discussion Round: S-73 – S-80
Presenters in attendance 10:15 – 11:45**

PR03-30

Poster Moderator:

Kathryn P. King, MD; Duke University Medical Center, Durham, North Carolina

Learner Objective: To promote the understanding of pharmacoeconomic principles and gain insight into cost-effective anesthetic care.

S-73 TURNOVER TIMES BETWEEN SURGERIES VARY WITH TIME OF DAY

D. P. Strum, L. G. Vargas;
Queen's University, Kingston, Ontario, Canada and Joseph M Katz Graduate School of Business, University of Pittsburgh, Pittsburgh, Pennsylvania

S-74 ROLE OF ANESTHESIA IN THE DELAYS TO THE ON-TIME TRANSFER TO THE OPERATING ROOMS

J. E. Chelly, J. L. Horne, F. Bataille, C. Rest, S. Yennam;
UPMC, Pittsburgh, Pennsylvania
Disclosure: Grants/Research Support - Organon, Bayer; Consultant - Zimmer; Honorarium - Pfizer

S-75 ECONOMIC BENEFITS OF AN ACUTE INTERVENTIONAL POSTOPERATIVE PAIN SERVICE

J. E. Chelly, K. Friend, B. Ben-David, L. Pizzi, M. Hudson, J. P. Williams;
UPMC, Pittsburgh, Pennsylvania
Disclosure: Grants/Research Support - Bayer, Organon; Consultant - Zimmer; Honorarium - Pfizer

S-76 OUTCOMES PATIENTS WISH TO AVOID AS A FUNCTION OF PREOPERATIVE ANXIETY

K. Anannab, J. A. Dominik, A. Garza, C. Schoenberg, H. L. Bennett;
Hackensack University Medical Center, Hackensack, New Jersey, UMDNJ, Newark, New Jersey

S-77 CHANGES AND CONSEQUENCES - A CLINICAL PRODUCTIVITY PLAN IN A LARGE MULTI-SITE ACADEMIC ANESTHESIOLOGY DEPARTMENT

J. A. Roskoph, M. Hudson, J. Williams, A. Abouleish, L. Handley;
UPMC - St. Margaret, Pittsburgh, Pennsylvania; UPMC - Shadyside Hospital, Pittsburgh, Pennsylvania; UPMC - Department of Anesthesiology, Pittsburgh, Pennsylvania and UTMB, Galveston, Texas

S-78 THE PHARMICOECONOMICS OF LOW-FLOW ANESTHESIA AT A UNIVERSITY HOSPITAL

F. V. Cobos II, R. Shaffer;
University of Nebraska Medical Center, Omaha, Nebraska

S-79 FACTORS AFFECTING SURGICAL TIME IN OUTPATIENT LAPAROSCOPIC CHOLECYSTECTOMY

P. MacDougall, S. D. Beed, P. A. Brousseau, P. A. Brousseau, C. L. Rose;
Dalhousie University, Halifax, Nova Scotia, Canada and St. Paul's Hospital, Vancouver, British Columbia, Canada

S-80 INFLUENCE OF ASA PHYSICAL STATUS ON DURATION OF PRE-ANESTHETIC ASSESSMENT

N. Holt, A. Nissen, T. Silverman, M. Costitch, G. Watrous, D. G. Silverman;
Yale University School of Medicine, New Haven, Connecticut

**MONDAY, MARCH 26 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Genetics/Genomics

**Abstracts in Poster Discussion Round: S-137 – S-144
Presenters in attendance 10:15 – 11:45 (note time)**

PR03-31

Poster Moderators:

Jerome Parness, MD; Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania
Michael Zaugg, MD, DEAA*; University of Zurich, Zurich, Switzerland

Learner Objective: To understand recent advances in genetic/genomic medicine as it relates to perioperative patients.

S-137 THE EFFECTS OF 5-HYDROXYTRYPTAMINE 3B RECEPTOR PROMOTER POLYMORPHISMS ON POSTOPERATIVE VOMITING

*K. Candiotti, L. Curia, H. Liu, Y. Zhang, T. Miller, Z. Yang;
University of Miami, Miami, Florida*

S-138 CHROMOSOMAL SUBSTITUTION-DEPENDENT DIFFERENCES IN CARDIOPROTECTION BY ISOFLURANE - INDUCED PRECONDITIONING IN RATS

*V. Frkovic, J. Novalija, E. Novalija;
Medical College of Wisconsin, Milwaukee, Wisconsin*

S-139 IMPACT OF BETA2 ADRENERGIC RECEPTOR SIGNALING UPON CARDIAC REMODELING AND GENE EXPRESSION

*A. Murthy, T. Samad, N. Pearl, J. Wong, R. Agrawal, A. J. Patterson;
Stanford University, Stanford, California*

S-140 ANALYSIS OF CARDIAC GENE EXPRESSION IN MICE WITH DISRUPTION OF THE BETA2 ADRENERGIC RECEPTOR PDZ BINDING MOTIF

*E. Fung, T. Samad, C. Chen, J. Wong, R. Agrawal, A. J. Patterson;
Stanford University, Stanford, California and University of California, San Francisco, San Francisco, California*

S-141 THE DIFFERENTIAL EFFECTS OF ANESTHETIC-INDUCED PRECONDITIONING: DEPENDENCE ON RAT STRAINS

*A. Tampo, Z. J. Bosnjak, W. Kwok;
Medical College of Wisconsin, Milwaukee, Wisconsin*

S-142 SEVOFLURANE AT SEDATIVE DOSES PREVENTS ENDOTHELIAL DYSFUNCTION AND ACTIVATION OF LEUKOCYTES AFTER ISCHEMIA/REPERFUSION INJURY IN HUMANS AND MODULATES MRNA EXPRESSION IN PERIPHERAL BLOOD

*E. Lucchinetti, S. Ambrosio, J. Aguirre, P. Hermann, L. Härter, M. Keel, M. Zaugg;
University of Zurich, Institute of Anesthesiology, USZ, Zurich, Switzerland; University of Zurich, Zurich, Switzerland and Department of Trauma Surgery, USZ, Zurich, Switzerland
Disclosure: Grants/Research Support – Abbott Switzerland*

S-143 MOLECULAR MECHANISM OF GLUTAMINE-MEDIATED INDUCTION OF HSP70 INVOLVES ACTIVATION OF THE O-LINKED-N-ACETYLGLUCOSAMINE PATHWAY.

*C. Hamiel, S. Pinto, P. E. Wischmeyer;
University of Colorado Health Sciences Center, Denver, Colorado*

*** S-144 GLUTAMINE'S ATTENUATION OF MORTALITY AND THE INFLAMMATORY RESPONSE FOLLOWING SEPSIS IS DEPENDENT ON HSP70 EXPRESSION**

*K. Singleton, P. E. Wischmeyer;
University of Colorado Health Sciences Center, Denver, Colorado*

*Best of Meeting

**Best of Section

Equipment (1)

**Abstracts in Poster Discussion Round: S-113 – S-120
Presenters in attendance 1:00 – 2:30 (note time)**

PR03-32

Poster Moderators:

Mitchell F. Berman, MD; Columbia University, New York, New York
Balachundhar Subramaniam, MD; Harvard Medical School, Boston, Massachusetts

Learner Objective: To understand new developments in anesthesia equipment and monitoring devices.

S-113 A PROSPECTIVE STUDY TO EVALUATE THE DEPTH OF SEDATION IN PATIENTS UNDERGOING PROCEDURAL SEDATION

*M. R. Macknet, J. Kelling, M. Logvin, R. D. Martin, M. Allard, R. L. Applegate II;
Loma Linda University, Loma Linda, California*

S-114 A SURVEY OF ANESTHESIA ALARM USAGE IN A TERTIARY CARE FACILITY

*J. B. Cohen, H. W. Schweiger, A. Becsey, D. Mangar;
University of South Florida, Tampa, Florida*

S-115 WITHDRAWN

**** S-116 PRELIMINARY EVALUATION OF AN IN-HOSPITAL AUTOMATED BLOOD GLUCOSE MONITOR (OPTImus®) IN HEALTHY VOLUNTEERS**

*M. C. Torjman, M. E. Goldberg, A. T. Marr, M. Maldonado, K. Reilly, R. Hirsh;
Cooper University Hospital, Robert Wood Johnson Medical School - UMDNJ, Camden, New Jersey
Disclosure: Grants/Research Support - Glucon, Inc.*

***** S-117 AN IMPROVED SENSOR FOR MONITORING RESPIRATION IN PEDIATRIC PATIENTS.**

*M. R. Macknet, P. Kimball-Jones, R. L. Applegate II;
Loma Linda University, Loma Linda, California
Disclosure: Grants/Research Support - Corporate support provided for this project.*

S-118 EVALUATION OF THE AIRWAY SCOPE IN SIMULATED DIFFICULT TRACHEAL INTUBATION: A MANIKIN STUDY

*W. Takayama, Y. Mori, T. Yoshikawa, K. Miyashita, S. Sano, T. Kaneko;
Kawasaki Saiwai Hospital, Kanagawa, Japan and National Tokyo Medical Center, Tokyo, Japan*

S-119 TRUVIEW EVO-2 LARYNGOSCOPY IS SUPERIOR TO MACINTOSH LARYNGOSCOPY IN TERMS OF FORCE USED, GLOTTIC VIEW & HEMODYNAMIC CHANGES

*S. Jain, M. Maroof, V. Verma, M. Alam, S. Gogia, R. M. Khan;
Aligarh Muslim University, Aligarh, India and University of North Carolina, Chapel Hill, North Carolina*

S-120 WITHDRAWN

**Best of Section

***Kosaka Session

**MONDAY, MARCH 26 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Equipment (2)

**Abstracts in Poster Discussion Round: S-121 – S-128
Presenters in attendance 1:00 – 2:30**

PR03-33

Poster Moderators:

Nancy A. Nussmeier, MD; Update Medical University, Syracuse, New York
David Wax, MD; Mt. Sinai School of Medicine, New York, New York

Learner Objective: To understand new developments in anesthesia equipment and monitoring devices.

S-121 FEMORAL AND RADIAL ARTERIAL PRESSURE WAVEFORM ANALYSIS FOR CONTINUOUS CARDIAC OUTPUT MEASUREMENT IN CARDIAC SURGERY PATIENTS: A COMPARISON OF FLOTRAC/VIGILEO AND PICCOPLUS WITH INTERMITTENT THERMODILUTION

C. K. Hofer, D. Button, X. Mueller, O. Reuthebuch, A. Zollinger;
Triemli City Hospital Zurich, Zurich, Switzerland
Disclosure: Grants/Research Support - Edwards Lifesciences

S-122 DOES THE USE OF A LARYNGOSCOPE FACILITATE OROTRACHEAL INTUBATION WITH A SHIKANI OPTICAL STYLET WITH THE HEAD IN AN EXTENDED POSITION?

C. F. Young, N. Vadivelu;
Yale University, New Haven, Connecticut

S-123 MONITORING CARBON DIOXIDE TENSION IN LAPAROSCOPIC SURGERY

Z. Xin, J. Jue, C. Beilei, Y. Buwei;
Ruijin Hospital, Shanghai, China

S-124 ECHOCARDIOGRAPHIC DETECTION OF VENOUS EMBOLIZATION DURING TOTAL SHOULDER ARTHROPLASTY (TSA)

S. N. Harris, L. H. Turteltaub, K. M. Jules-Elysee, J. Y. Lipnitsky, M. K. Urban;
Hospital for Special Surgery, New York, New York

S-125 A COMPARISON OF THE MONITORING QUALITIES BETWEEN ENTROPY AND BISPECTRAL INDEX VALUES DURING ORTHOGNATIC SURGERY UNDER SEVOFLURANE ANESTHESIA

M. Inagawa, T. Koitabashi, T. Ichinohe, Y. Kaneko;
Tokyo Dental College, Chiba City, Chiba, Japan and Ichikawa General Hospital, Tokyo Dental College, Chiba, Japan

S-126 VARIABILITY OF BIS IS INCREASED IN RESPONDERS TO SKIN INCISION AND CORRELATES WITH PREINCISION ANALGESIC LEVEL

S. Greenwald, C. Rosow, P. Manberg;
Aspect Medical Systems, Inc., Newton, Massachusetts and Massachusetts General Hospital and Harvard Medical School, Boston, Massachusetts
Disclosure: Stock Shareholder - Aspect Medical Systems, Inc.;
Honorarium - Aspect Medical Systems, Inc.

***** S-127 RELIABILITY OF TEMPERATURES MEASURED AT STANDARD MONITORING SITES AS AN INDEX OF BRAIN TEMPERATURE DURING DEEP HYPOTHERMIC CARDIOPULMONARY BYPASS**

H. Setoguchi, T. Akata, K. Shirozu, J. Yoshino;
Kyushu University Hospital, Fukuoka, Japan; Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan and Kyushu Medical Center, Fukuoka, Japan

S-128 TRACHEAL INTUBATION USING THE AIRWAY SCOPE SYSTEM FOR PATIENTS WITH A SIMULATED DIFFICULT AIRWAY

Y. Mori, W. Takayama, Y. Aoyama, T. Kamada, R. Yasumura, K. Suga;
National Tokyo Medical Center, Tokyo, Japan and Kawasaki Saiwai Hospital, Kanagawa, Japan

***Kosaka Session

Equipment (3)

**Abstracts in Poster Discussion Round: S-129 – S-136
Presenters in attendance 1:00 – 2:30**

PR03-34

Poster Moderator:

Derek Sakata, MD; University of Utah School of Medicine, Salt Lake City, Utah

Learner Objective: To understand new developments in anesthesia equipment and monitoring devices.

S-129 PILOT STUDY OF FORE-SIGHT CEREBRAL OXIMETER IN CARDIAC PATIENTS

D. MacLeod, K. Ikeda, W. White, J. Keifer, E. Moretti;
Duke University Medical Center, Durham, North Carolina
Disclosure: Grants/Research Support - Research Grant to Institution for salary support.

S-130 COMPARISON OF THE EFFECT OF LINGUAL TRACTION VERSUS THE OVASSAPIAN PHARYNGEAL AIRWAY ON GLOTTIC VISUALIZATION DURING FIBEROPTIC INTUBATION

B. J. Fenson, C. Daltner, G. E. Medich;
The Western Pennsylvania Hospital, Pittsburgh, Pennsylvania; Westmoreland Regional Hospital, Greensburg, Pennsylvania and North Hills Passavant Hospital, Pittsburgh, Pennsylvania

S-131 COMPARISON BETWEEN THE AIRWAY SCOPE AND THE BULLARD LARYNGOSCOPE FOR ENDOTRACHEAL INTUBATION IN PATIENT WITH NORMAL AIRWAY

A. Suzuki, M. Terao, K. Nagashima, K. Mamiya, O. Takahata, H. Iwasaki;
Asahikawa Medical College, Asahikawa, Hokkaido, Japan

S-132 VALIDATION OF CARDIAC OUTPUT MEASUREMENTS WITH THE LIDCO PULSE CONTOUR SYSTEM IN HEART SURGERY PATIENTS WITH REDUCED LEFT VENTRICULAR FUNCTION

B. Mora, I. Ince, A. Moritz, B. Steinlechner, B. Birkenberg, M. Dworschak;
University Hospital Vienna, Vienna, Austria

S-133 AN ACTIVE PATIENT WARMING SYSTEM THAT UTILIZES CONDUCTIVE TEXTILE MATERIAL TO TREAT PERIOPERATIVE HYPOTHERMIA

M. K. Loushin, J. S. Johnson, J. C. Iaizzo, P. A. Iaizzo;
University of Minnesota Medical Center, Minneapolis, Minnesota

S-134 MATHEMATICAL MODEL EXPLAINS REDUCTION OF METABOLIC GAS EXCHANGE DURING ONSET OF GENERAL ANESTHESIA

R. M. Moore, D. Chien, A. Rosenbaum, P. H. Breen;
University of California Irvine Medical Center, Orange, California
Disclosure: Grants/Research Support - University of California Irvine Medical Center, Anesthesia Department

S-135 AIRWAY O2 UPTAKE AND CO2 ELIMINATION, MEASURED WITH A NEW BYMIXER-FLOW SYSTEM, ARE DECREASED IN MORBIDLY OBESE PATIENTS

A. Rosenbaum, P. H. Breen, R. M. Moore;
University of California Irvine Medical Center, Orange, California

S-136 EFFECT OF CRICOID PRESSURE ON PLACEMENT OF THE LARYNGEAL TUBE

E. H. Liu, R. W. Goy, T. Asai;
National University Hospital, Singapore, Singapore and Kansai Medical University, Osaka, Japan

**MONDAY, MARCH 26 – MODERATED POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS DISPLAYED – 8:00-4:30**

Neuroanesthesia

**Abstracts in Poster Discussion Round: S-153 – S-160
Presenters in attendance 3:00 – 4:30**

PR03-35

Poster Moderators:

Robert Craft, MD; University of Tennessee, Louisville, Tennessee
Hugh Hemmings, MD, PhD; Weill Cornell Medical College, New York, New York

Learner Objective: To understand selected basic and clinical developments that influence neuroanesthesia practice.

- * **S-153 IN VIVO GENE SILENCING OF PROTEIN KINASES IN THE RAT RETINA ELUCIDATES MECHANISMS OF ISCHEMIC PRECONDITIONING**
**
S. Roth, J. C. Dreixler, Y. Shen, A. R. Shaikh;
University of Chicago, Chicago, Illinois
- S-154 EFFECT OF ISOFLURANE-INDUCED HYPOTENSION ON THE CEREBROSPINAL FLUID CONCENTRATION OF FREE FATTY ACIDS IN PATIENTS UNDERGOING CLIPPING OF INTRACRANIAL ANEURYSM**
H. Cheng;
Beijing Tiantan Hospital, Affiliate of Capital University of Medical Sciences, Chinese Academy of Medical Sciences, Beijing China
- S-155 SEVOFLURANE ANESTHESIA DECREASES CARDIAC VAGAL ACTIVITY AND HEART RATE VARIABILITY**
W. E. Hoffman, M. Lee, C. Paisansathan, V. L. Baughman;
University of Illinois at Chicago, Chicago, Illinois
- S-156 INCREASED PLASMA IL-1 β LEVELS FOLLOWING HEMODILUTION IN RATS.**
A. T. McLaren, H. Zhang, D. Mazer, A. J. Baker, E. Liu, G. M. Hare;
St. Michael's Hospital, University of Toronto, Toronto, Ontario, Canada and Cara Phelan Center for Trauma Research, St. Michaels Hospital, University of Toronto, Toronto, Ontario, Canada
Disclosure: Grants/Research Support - CAS, PSI
- S-157 RISK FACTORS AND OUTCOME OF EARLY POST-OPERATIVE REINTUBATION IN NEUROSURGICAL PATIENTS: A RETROSPECTIVE COHORT STUDY OF 5894 GENERAL ANESTHETIC ADULT NEUROSURGICAL CASES**
D. C. Kramer, E. I. Den, J. Bauml, M. Kroll, J. B. Bederson, K. D. Post;
Mount Sinai Medical Center, New York, New York and Albert Einstein College of Medicine, New York, New York
- S-158 THE CHANGING FACE OF SPINAL FUSION SURGERY: ANALYSIS OF THE NATIONAL INPATIENT SAMPLE (NIS) DATABASE**
S. Roth, A. Tung, Y. Shen;
University of Chicago, Chicago, Illinois
- S-159 FEASIBILITY OF PUPILLOMETRY AND RETINAL DIGITAL PHOTOGRAPHY DURING HIGH DOSE REMIFENTANIL INFUSION FOR PRONE SPINE SURGERY**
H. L. Bennett, G. Grant, R. Turbin, B. Szirth;
UMDNJ, Newark, New Jersey
Disclosure: Grants/Research Support - Anesthesia Patient Safety Foundation
- S-160 GOGGLES AND FOAM HEADRESTS: ANOTHER HAZARD IN PRONE-POSITIONED SPINE SURGERY PATIENTS**
S. Roth, A. Tung, M. H. Dauber;
University of Chicago, Chicago, Illinois

*Best of Meeting

**Best of Section

OB/GYN Anesthesia

**Abstracts in Poster Discussion Round: S-161 – S-168
Presenters in attendance 3:00 – 4:30**

PR03-36

Poster Moderators:

Tony Gin, MD, FRCA, FANZCA; Chinese University of Hong Kong, Hong Kong, China
Joy L. Hawkins, MD; University of Colorado Health Sciences Center, Denver, Colorado

Learner Objective: To understand selected advances in obstetric anesthesia.

- ** **S-161 ARE INTERMITTENT EPIDURAL INJECTIONS PROTECTIVE AGAINST EPIDURAL INTRAPARTUM FEVER?**
V. R. Mantha, V. Ramesh, M. C. Vallejo, S. Ramanathan;
University of Pittsburgh, Pittsburgh, Pennsylvania
- S-162 LABOR OUTCOME WITH INTERMITTENT VS CONTINUOUS LABOR EPIDURAL ANALGESIA**
V. R. Mantha, V. Ramesh, M. C. Vallejo, S. Ramanathan;
University of Pittsburgh, Pittsburgh, Pennsylvania
- S-163 THE EFFECT OF INTUBATION TECHNIQUE ON CORD GASES**
R. Glassenberg, D. Gupta;
Northwestern University, Chicago, Illinois
- S-164 ANAESTHESIA FOR CAESAREAN SECTION IN A UNIVERSITY HOSPITAL IN GERMANY FROM 1999 - 2004**
K. O. Enohumah, T. Crozier;
Regional Hospital Tullamore, Tullamore, Ireland and University Hospital Göttingen, Göttingen, Germany
- S-165 A COMBINED SPINAL EPIDURAL NEEDLE REDUCES THE INCIDENCE OF POST DURAL PUNCTURE HEADACHE FOR CAESAREAN SECTION**
Y. Fujino, S. Nosaka;
Shiga University of Medical Science, Otsu, Japan
- S-166 ACUTE FATTY LIVER OF PREGNANCY: CLINICAL PRESENTATION, COMPLICATIONS AND OUTCOME.**
R. Souissi, M. Bouchnak, M. R. Sallem, M. Hamdi, M. Lahmeri, H. Maghrebi;
National institut of neurology, Tunis, Tunisia and Centre de Maternité et de Neonatology, Tunis, Tunisia
- S-167 LOW DOSE INFUSION OF DEXMEDETOMIDINE IS EFFECTIVE AND SAFE FOR POSTOPERATIVE GYNECOLOGICAL PATIENTS EVEN IN GENERAL WARDS - NOVEL DEX INFUSION METHODS**
H. Iwakiri, N. Nishihara, T. Fukada, M. Ozaki;
Tokyo Women's Medical Univ., Tokyo, Japan
- S-168 PULMONARY DISORDERS DURING PREGNANCY: INCIDENCE, ETIOLOGY AND OUTCOME.**
R. Souissi, H. Souissi, N. Baffoun, Z. Haddad, C. Kaddour, L. Skandrani;
National Institut of Neurology, Tunis, Tunisia and La Rabta Hospital, Tunis, Tunisia

**Best of Section

**MONDAY, MARCH 26 – MODERATED
POSTER DISCUSSION ROUNDS
GREAT HALL CENTER – POSTERS
DISPLAYED – 8:00-4:30**

**Challenging Cases (3)
Abstracts in Poster Discussion Round
Presenters in attendance 3:00 – 4:30**

PR03-37

Poster Moderators:

Eric Bedell, MD; University of Texas Medical Branch at Galveston, Galveston, Texas

Keith Candiotti, MD; University of Miami, Miami Beach, Florida

Learner Objective: To review principles of management of unusual or difficult cases encountered in anesthesia practice.

- 1415 LARSEN SYNDROME: A WORD OF CAUTION FOR THE ANESTHESIOLOGIST**
C. E. Mason, M. L. De Ruyter;
University of Kansas, Kansas City, Kansas
- 1321 MANAGEMENT OF A KNOTTED BRONCHOSCOPE IN THE TRACHEOBRONCHIAL TREE**
J. Kim, L. Ross, T. McNair;
St. Vincents Catholic Medical Centers New York, New York, New York
- 1472 RUPTURED AORTIC ANEURYSM COMPLICATED BY AN AORTOCAVAL FISTULA; THE ROLE OF TRANSESOPHAGEAL ECHOCARDIOGRAPHY**
M. P. Angelucci, T. H. Swygert, S. Sigurdsson, M. A. Ramsay;
San Antonio Uniformed Services Health Education Consortium, San Antonio, Texas and Baylor University Medical Center, Dallas, Texas
- 1558 EKG CHANGES AND BRADYCARDIA ASSOCIATED WITH BLOOD BRAIN BARRIER DISRUPTION**
S. S. Zaky, E. Farag, G. Barnett;
Cleveland Clinic, Cleveland, Ohio
- 1230 LARGE CORONARY SINUS HEMATOMA FOLLOWING THE PLACEMENT OF A RETROGRADE CARDIOPLEGIA CANNULA**
J. Bauerfeind, Y. G. Peng;
University of Florida College of Medicine, Gainesville, Florida
- 1238 GRAND MAL SEIZURE INDUCED BY ROPIVACAINE AFTER BRACHIAL PLEXUS BLOCK WITHOUT ACCIDENTAL INTRAVASCULAR INJECTION; AN INFLUENCE OF PREDISPOSITION TO CONVULSION**
T. Satsumae, S. Saito, T. Mori, S. Inomata;
Tsukuba Gakuen General Hospital, Tsukuba city, Ibaraki, Japan and Tsukuba University School of Medicine, Tsukuba city, Ibaraki, Japan
- 1271 ROLE OF PERMISSIVE HYPERCAPNIA IN HYPERKALEMIC CARDIAC ARREST DURING REPERFUSION PHASE OF SINGLE LUNG TRANSPLANT- A CASE REPORT**
W. Yan, G. Dimitrova, P. Ross, H. Elsayed-Awad;
The Ohio State University Medical Center, Columbus, Ohio
- 1322 PATIENT AT 18 WEEKS GESTATION WITH CERVICAL SPINE FRACTURE AND OPEN HUMERUS FRACTURE**
J. Kim, L. Ross, T. McNair;
St. Vincents Catholic Medical Center New York, New York, New York

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**Breakfast/ Lunch Satellite
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7:30 - 8:00 CONTINENTAL BREAKFAST – GREAT HALL

REVIEW COURSE LECTURES – GREAT HALL NORTH

8:00 - 8:45 MECHANISMS OF GENERAL ANESTHESIA
R24 **James W. Sleigh, MBChB, FANZCA**
 Professor of Anesthesia and Intensive Care
 Medical and Health Sciences, University of Auckland
 Waikato Clinical School
 Waikato Hospital
 Hamilton, New Zealand

Learner Objective: At the end of the lecture the listener would be able to evaluate the significance of various putative molecular and neuronal targets of anesthetic drug action; and to understand how anesthetic-induced alteration of function at the neuronal level may translate into changes in the function of the central nervous system as a whole; and hence induce the change in the patient's state, from one of responsiveness to anesthesia

8:50 - 9:35 THE FUTURE OF ANESTHETIC PHARMACOLOGY
R25 **Steven L. Shafer, MD***
 Editor-in-Chief, *ANESTHESIA & ANALGESIA*
 Professor of Anesthesiology
 Department of Anesthesiology
 Stanford University
 Palo Alto, California

Learner Objective: This review course will examine recent developments in anesthetic pharmacology, including advances in hypnotics, muscle relaxants and reversal agents, and analgesics. Most of the drugs presented are still in development. However, some of these drugs will likely be introduced soon, and they will radically alter how we practice anesthesia. The participant will learn what to expect in new therapeutics within the next 5 - 10 years.

9:30 - 10:00 COFFEE BREAK – GREAT HALL

PANEL – GREAT HALL EAST

8:00 - 9:30 HOW OUTCOMES ASSESSMENT FOR PAIN
PL25 MANAGEMENT WILL NEED TO CHANGE IN THE
FUTURE?

John C. Rowlingson, MD
 Professor of Anesthesiology
 Director/Pain Medicine Services
 Department of Anesthesiology
 University of Virginia Health System
 Charlottesville, Virginia

Marcel Durieux, MD
 Professor of Anesthesiology, Department of Anesthesiology
 University of Virginia
 Charlottesville, Virginia

Learner Objective: To discuss novel options in management of acute postoperative pain.

PANELS – GREAT HALL WEST

8:00 - 9:30 ABA MAINTENANCE OF CERTIFICATION IN
PL26 ANESTHESIOLOGY (MOCA™) PROGRAM



Patricia A. Kapur, MD
 Professor and Chair
 Department of Anesthesiology
 University of California, Los Angeles School of Medicine
 Los Angeles, California

Learner Objective: Attendees will learn about the ABA Maintenance of Certification in Anesthesiology (MOCA) program which is now a requirement for all ABA Diplomates who have been certified since 2000. ABA Directors will also answer questions about the ABA part 1 (written) and part 2 (oral) examinations.

BEST OF THE MEETING – 10:00-11:30
 GREAT HALL NORTH

Judges: **Joy L. Hawkins, MD;** University of Colorado Health Sciences Center, Denver, Colorado
R26 **Donald S. Prough, MD;** University of Texas Medical Branch at Galveston, Galveston, Texas
Steven L. Shafer, MD*; Editor-in-Chief, *Anesthesia & Analgesia*, Stanford University, Palo Alto, California
Hugo Van Aken, MD; Universität Münster, Münster, Germany

Bleeding

S-9 SIMILARITY OF BRAIN BLOOD FLOW RESPONSES DURING HEMODILUTION WITH TWO PERFLUOROCHEMICAL SUBSTITUTIONS.

R. Chaparro, C. D. Price, B. Williams, W. Nel, D. Mangar, E. M. Camporesi;
 University of South Florida, Tampa, Florida

Cardiothoracic & Vascular – Clinical (1)

S-41 DEXMEDETOMIDINE PROVIDES ADEQUATE SEDATION AND HEMODYNAMIC CONTROL FOR AWAKE, DIAGNOSTIC TRANSESOPHAGEAL ECHOCARDIOGRAPHY

L. Cooper, K. Candiotti, C. Gallagher, E. Grenier, K. Arheart, M. Barron;
 Ochsner Health Systems, New Orleans, Louisiana; University of Miami Miller School of Medicine, Miami, Florida and State University of New York - Stonybrook, Stonybrook, New York

Genetics/Genomics

S-144 GLUTAMINE'S ATTENUATION OF MORTALITY AND THE INFLAMMATORY RESPONSE FOLLOWING SEPSIS IS DEPENDENT ON HSP70 EXPRESSION

K. Singleton, P. E. Wischmeyer;
 University of Colorado Health Sciences Center, Denver, Colorado

Neuroanesthesia

S-153 IN VIVO GENE SILENCING OF PROTEIN KINASES IN THE RAT RETINA ELUCIDATES MECHANISMS OF ISCHEMIC PRECONDITIONING

S. Roth, J. C. Dreixler, Y. Shen, A. R. Shaikh;
 University of Chicago, Chicago, Illinois

Pain - Basic Science

S-170 NEUROIMAGING EVIDENCE FOR SUBJECTIVE ANALGESIC EFFECTS OF OPIOIDS AND IMMERSIVE VIRTUAL REALITY DISTRACTION.

S. R. Sharar, H. G. Hoffman, T. L. Richards, T. Van Oostrom, B. A. Coda, M. P. Jensen;
 University of Washington, Seattle, Washington

Pain - Clinical - Acute - 2

S-185 FEMORAL NERVE CATHETER INFUSION OF FENTANYL OR ROPIVACAINE FOR ANALGESIA IN KNEE REPLACEMENT SURGERY.

J. Dreier, T. Buck, J. Basile, V. Shah, D. Mangar;
 University of South Florida, Tampa, Florida

Pharmacology - Basic Science - 1

S-209 ACTIVATING THE THALAMIC CONSCIOUSNESS SWITCH: THALAMIC MICROINJECTION OF NICOTINE REVERSES SEVOFLURANE-INDUCED UNCONSCIOUSNESS IN THE RAT

M. T. Alkire, J. McReynolds;
 University of California, Irvine, Orange, California

Pharmacology - Clinical - 2

S-242 THE EFFECT OF CISATRACURIUM AND SUCCINYLCHOLINE UPON INTRAOCULAR PRESSURE FOLLOWING PROPOFOL INDUCTION OF GENERAL ANESTHESIA: DOES IT MATTER?

P. Shah, A. M. Malik, A. R. Khan, N. Imami, M. Menon, M. Brown;
 Henry Ford Hospital, Detroit, Michigan

Learner Objective: A panel of judges have selected the eight best abstracts from the more than 300 submitted. The attendee will have an opportunity to view these as posters, hear capsule presentations by the authors, and participate in the discussion led by the expert panel.

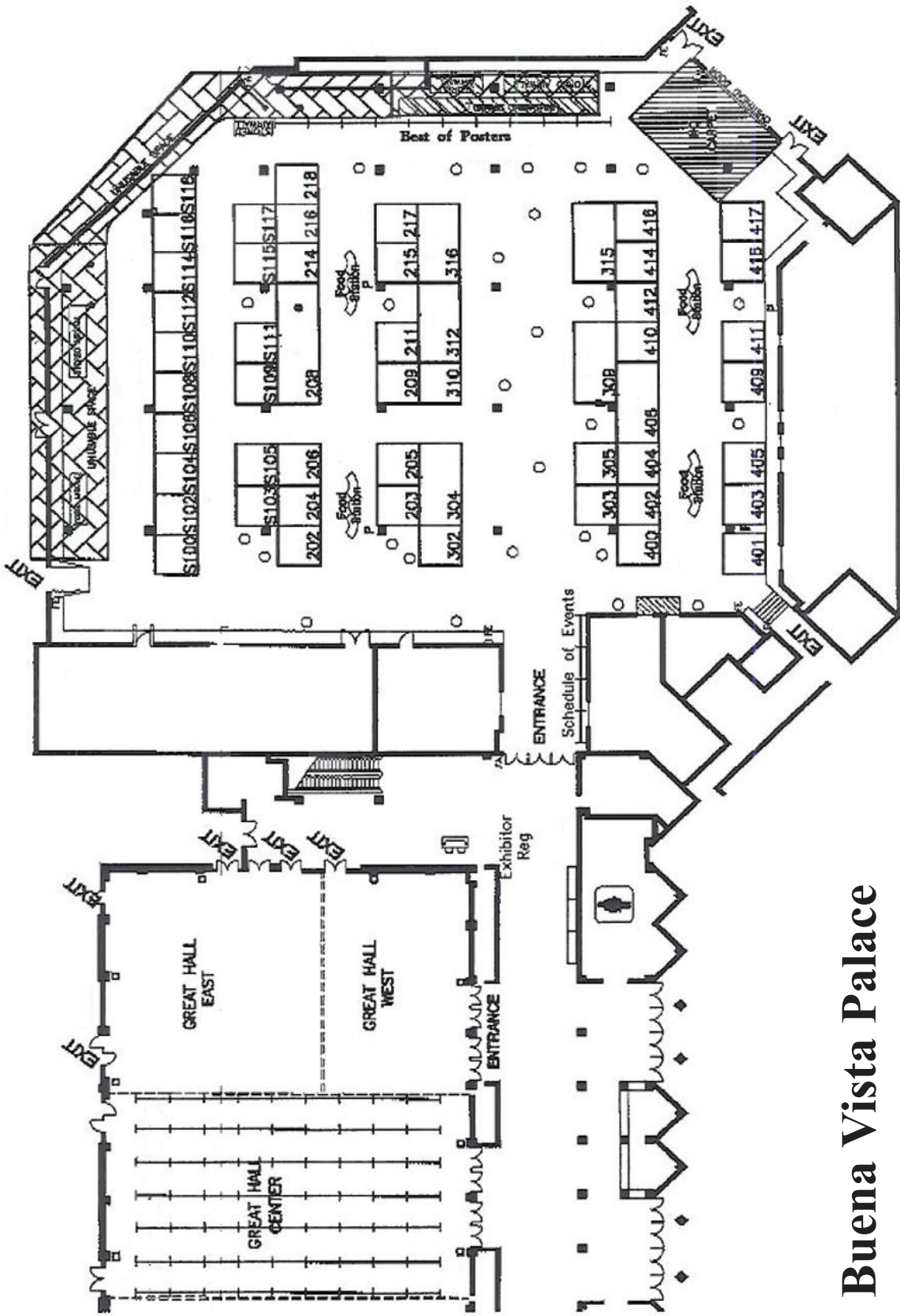
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Buena Vista Palace Orlando, Florida

**Scientific and Educational Exhibits
(in booth number order)**

Exhibitor	Booth #
THE MEDICAL COLLEGE OF WISCONSIN	S100
CLEVELAND CLINIC	S102
VA MEDICAL CENTER	S103
UNIVERSITY OF MINNESOTA	S104
VA MEDICAL CENTER	S105
MEDICAL COLLEGE OF WISCONSIN	S106
THE BROOKDALE UNIVERSITY HOSPITAL AND MEDICAL CENTER	S108
THE BROOKDALE UNIVERSITY HOSPITAL AND MEDICAL CENTER	S110
IARS TEACHING RECOGNITION AWARD DISPLAY	S112
SOCIETY FOR TECHNOLOGY IN ANESTHESIA (STA)	S114

Canadian Anesthesiologists' Society

Visit the CAS exhibit display in the IARS Registration area to receive meeting and membership information.

63rd Annual Meeting, June 22-26, 2007
Calgary, Alberta, Canada

The Japan Society for Clinical Anesthesia

Stop by the JSA booth to receive meeting and membership information.

**Technical Exhibits
(in booth number order)**

Exhibitor	Booth #
Anew International	109
Envi International Inc.	111
Linde Healthcare / Kendall & Davis	115
Mercury Medical	117
Ortho-McNeil Inc.	118
Cook Medical	202
Novo Nordisk Inc.	203
American Healthcare Products	204
Aspect Medical Systems, Inc.	205
Parker Medical Inc.	206
Hospira Worldwide, Inc.	208
LMA North America, Inc.	209
Nat'l Academy of Perioperative Echocardiology	211
AnazaoHealth Corporation	214
Verathon Medical Inc.	215
Sharn Anesthesia Inc.	216
Yuma Regional Medical Center	217
STARR Life Sciences Corp.	218
Organon USA Inc	302
Sun-Med	303
Baxter Healthcare Corp.	304
Anesthesiology News	305
Wolter Kluwer Health-Lippincott Williams	309
W. B. Saunders/Mosby	310
GE Healthcare	312
Masimo Corporation	315
Minrad International Inc.	316
C&C International Imports, Inc.	400
Mainline Medical Inc.	401
CAS Medical Systems Inc.	402
NovaMed, LLC	403
Bluestar Enterprises, Inc.	404
Hilton Grand Vacations Club	405
Global Perioperative Research Org. (GPRO)	406
PENTAX Corporation	408
North American Partners in Anesthesia	409
Arizant Healthcare	410
Cardiotronic, Inc.	411
AMBU, Inc.	412
Luminetx	414
Indigo-Orb, Inc.	415
Safer Sleep, LLC	416
All Care Consultants	417

**Scientific and Educational Exhibits
Saturday through Monday – Event Center**

**Saturday, March 24
7:30 – 1:00**

**Sunday, March 25
7:30 – 1:00 and 4:30 – 6:30**

**Monday, March 26
7:30 – 12:00**

Evaluation of Low Back Pain in the Pain Clinic Setting Booth: S100

Caridad Bravo-Fernandez, MD; Wladislaw Fedoriw, MD; Daniel Alves, MD; Gregory Diciaula, MA
The Medical College of Wisconsin, Milwaukee, Wisconsin

Utilizing a multimedia presentation, this exhibit focuses on the physical examination skills used in the process of evaluating patients with low back pain. Intended for pain management practitioners, residents and fellows training in the pain clinic setting; some of the pathology sought include lumbar facet arthropathy vs. disc degeneration, spinal stenosis and paraspinalmuscle strain.

State Membership Survey Results of the Ohio Society of Anesthesiologists Booth: S102

Jerome F. O'Hara, MD; Andrew Zura, MD
Cleveland Clinic Foundation, Cleveland, Ohio

Exhibit purpose is to discuss OSA 1000+ members survey results done every two years since 1999 (response rate 40%). Information on member profiles, practice profiles, nurse anesthetist and anesthesiology assistant relationships, membership value, annual meeting value and legislative efforts will be presented.

The Perfect Peri-Operative Process and Quality Improvement in the Operating Rooms Booth: S103

Raghuvender Ganta, MD, FRCA; Usha Ramakrishnan, MD; Michael Taylor, MD; James S. Grim, MD; Gayla Freeman, RN; Ciron O'Hare, MD
VA Medical Center, Oklahoma City, Oklahoma

A perfect peri-operative process requires the team work of surgeons, anesthesiologists, and nursing staff. Establishment of processes, policies, and procedures that are consistent and fair can be monitored for performance measurement. Quality indicators and compliance issues will guide not only improve the patient safety but also surgical outcomes. The presentation will outline the perioperative processes in Oklahoma City VA and explain quality indicators to improve the systemic infection prevention measures. These will be displayed in the form of charts, graphs and pictures.

Improvement in Anesthesiology Education for Medical Students (MS) by Introducing (1) Clearly Defined Goals and (2) Strictly Guided Medical Educational Programs at the University of Minnesota Booth: S104

Ji-Chia Liao, MD, PhD
University of Minnesota, Minneapolis, Minnesota

All educational programs will be exhibited. We introduced a program in 2003. MS rated our rotation outstanding 35% in 2002 and 47% in 2005. Educational director stated that our elective is in the top three most popular electives among MS and the improvement was significant.

New Treatment Options for Occipital Neuralgia Booth: S105

Khalid Khan, MD; Mark Strahan, MD; Gregory Chernyak, MD; Muhammad Muntazar, MD
VA Medical Center, Oklahoma City, Oklahoma

Headache is a second common complaint among our pain clinic patients. It is important to differentiate various types of headaches prior to treatment. Treatment of certain types of headaches can be challenging such as occipital neuralgia. We will review the classification of headaches and focus on the new treatment methods for occipital related pain such as Occipital nerve stimulation, acupuncture, and other modalities. This exhibit will review these techniques utilizing posters and photographs.

Development of an Anesthesiology Curriculum in Undergraduate Medical Education Booth: S106

Elena J. Holak, MD, Pharm D; Paul S. Pagel, MD, PhD; Gregory H. Diciaula
Medical College of Wisconsin, Milwaukee, Wisconsin

Undergraduate medical education consists of traditional clerkships including medicine, surgery, OB-GYN, pediatrics and psychiatry. Invasive procedural skills are not addressed in a standardized format. A hit or miss strategy of "see one, do one, teach one" is often employed. This exhibit details, in multi-media format, development of basic invasive procedural skills needed by all practicing physicians.

Scientific and Educational Exhibits (cont'd)

Analgesia and Ambulation in Liposuction-Adominoplasty Operations under General Anesthesia Booth: S108

Adel R. Abadir, MD; Wagih Saweris, MD; Nachma Rosenfeld, MD; Ana Kraychova, MD; Irin Sedrak, MD
The Brookdale University Hospital and Medical Center, Brooklyn, New York

Severe postoperative pain and delayed early ambulation are considerable in liposuction-abdominoplasty operations, especially in obese patient. In this exhibit we present our experience in sixty obese patients who underwent such procedures under general anesthesia. The techniques, efficacy, cost effectiveness and side effects of different post-operative analgesic methods will be presented.

Benefits of an Anesthesia Managed Surgical Blood Conservation Program Booth: S110

Thomas Crimi, MD; Judith Aronsohn, MD; George Anis, MD; Andres Santos, MD; Rafik Michael, MD, PhD
The Brookdale University Hospital and Medical Center, Brooklyn, New York

Alternatives to the use of homologous blood are constantly being explored. Our institution utilizes several techniques to minimize blood loss while reducing the need for blood transfusions. In this exhibit we present a ten year review of our techniques, data, effectiveness and evolution of protocols of the Blood Conservation Program.

IARS Teaching Recognition Award Display Booth: S112

Society for Technology in Anesthesia (STA) Booth: S114

Society for Technology in Anesthesia (STA) exhibit will highlight STA activities and programs, encourage involvement in the Society and promote the meeting sponsored by STA.

Exhibitor Symposia

Exhibitor symposia provide opportunities for registrants to obtain information about products at a time when the IARS meetings are not in session. There is no fee to attend. PLEASE NOTE the symposia are under the total direction of the sponsoring companies. The IARS is not involved in any way except to make a structured time available to all exhibiting companies that wish to sponsor seminars and all registrants who wish to attend them.

continued...

Exhibitor Symposia (cont'd)

Sunday, March 25, 6:30 am – 7:30 am
Buena Vista Palace – Crown Hall

GE Healthcare

An Update on Ultrasound Guided Nerve Blocks

Speaker: Ken Johnson, MD; University of Utah

This program will cover key principles of ultrasound and emerging uses of image processing that are important to consider when performing ultrasound guided nerve blocks. Discussion will be directed at reviewing techniques in image optimization that clinicians can use to best visualize needle placement and nerve tissue.

Monday, March 26, 6:30 am – 7:30 am
Buena Vista Palace – Crown Hall

Merck and Company

PONV: Optimizing Outcomes for At-Risk Patients PostOperative Nausea and Vomiting

Speaker: Tong J. Gan, MB, FRCA*

This symposium will review the issues in PONV management, discuss the current treatment options, including newer therapies, and review the most recent consensus panel guidelines. New classes of agents, such as the NK1 receptor antagonists, will be reviewed for their broad spectrum of activity and for the benefits of oral administration. By combining a novel mechanism of action with the advantages of an oral formulation, the NK1 agents represent an intriguing new strategy for anesthesiologists and their approach to emesis control.

With this program, it is our intention to provide attendees with cutting-edge information and new ways of thinking about the management of PONV—with an eye towards helping them make the most informed decisions for their surgical patients.

Monday, March 26, 12:00 pm – 1:00 pm
Buena Vista Palace – Crown Hall

Masimo Corporation

Methemoglobinemia, Are your patients at risk?

Speaker: Mark Macknet, MD

Methemoglobinemia is traditionally thought to occur infrequently; however, it can be caused iatrogenically by a wide variety of medications given to patients in the clinical setting. Recent technological advances and new clinical evidence is expanding the need for increased clinician awareness.

**Technical Exhibits
Saturday through Monday – Event Center**

Saturday, March 24 7:30 – 1:00	Sunday, March 25 7:30 – 1:00 and 4:30 – 6:30	Monday, March 26 7:30 – 12:00
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<p>AMERICAN HEALTHCARE PRODUCTS Seattle, WA</p> <p>PRN ThermalCare introduces the future method and system to warm all patients. Conductive warming of the OR table surface and warming of IV & Irrigation Fluids for all patients from a single power supply unit. This is innovation and a problem solution that meets any budget without driving up the cost of maintaining normal-thermia.</p>	<p align="right">Booth: 204</p>	<hr/> <p>ARIZANT HEALTHCARE Eden Prairie, MN</p> <p>Arizant Healthcare Inc. develops and manufactures temperature management products including Bair Hugger® therapy, the Ranger® blood/fluid warming system and the Bair Paws® patient adjustable warming system.</p>
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7:30 – 1:00 and 4:30 – 6:30

Monday, March 26

7:30 – 12:00

BAXTER HEALTHCARE CORP.
 New Providence, NJ

Booth: 304

Baxter's pharmaceutical products include the inhalation anesthetics SUPRANE (desflurane, USP), SEVOFLURANE and FORANE (isoflurane, USP), BREVIBLOC (esmolol HCl) injection in vials, BREVIBLOC concentrate in ampules for dilution, BREVIBLOC PREMIXED (esmolol HCl in sodium chloride) injection, REVEX (nalmeferene HCl) and a comprehensive line of multisource injectables, including MIDAZOLAM HCl injection and PROPOFOL injectable emulsion 1%.

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 La Jolla, CA

Booth: 411

The AESCULON® monitor determines noninvasively Stroke Volume, Cardiac Output and other hemodynamic parameters to aid clinical assessment, diagnosis and therapy. Electrical Velocimetry™ is a new patented technology which measures the change of blood resistivity due to the alignment of red blood cells in the aorta upon pulsatile flow. With only 4 standard ECG surface sensors as disposables, the ease of use, and its clinically proven accuracy, AESCULON® will become the standard in clinical and outpatient monitoring.

CAS MEDICAL SYSTEMS, INC.
 Branford, CT

Booth: 402

Feel more confident in your cerebral protective strategy... CAS Medical Systems, a leader in vital signs monitoring systems, is proud to introduce the FORE-SIGHT Cerebral Oximeter, a compelling new technology for non-invasive, continuous monitoring of absolute cerebral tissue oxygen saturation. To learn more, visit us at Booth 402 or www.CASMED.com.

C&C INTERNATIONAL IMPORTS, INC. **Booth: 400**
 West Palm Beach, FL

Stylish, Handcrafted Swedish Clogs with orthotic-like arch support and safety rated anti slip bottoms. Offered in Fun and Classic styles in 13 Unisex sizes at Professional Rates.

BLUESTAR ENTERPRISES, INC.
 Chanhassen, MN

Booth: 404

TOF-Watch monitors: objective neuromuscular transmission monitors. Can be used for loco-regional anesthesia as well.

COOK MEDICAL
 Bloomington, IN

Booth: 202

ENVI INTERNATIONAL INC.
 Belleair Bluffs, FL

Booth: 111

Envi International has 20 years of marketing experience in the high-end fashion jewelry business, also specializing in corporate gift and business incentives. Envi presents the strongest jewelry guarantee in the industry. Visit our booth to find out how to obtain your free 1ct. CZ stud earrings.

GE HEALTHCARE
 Madison, WI

Booth: 312

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitor systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world discover new ways to predict, diagnose, and treat disease earlier.

GLOBAL PERIOPERATIVE RESEARCH ORG. (GPRO) **Booth: 406**
 Durham, NC

The Global Perioperative Research Organization (GPRO) is an Academic Research Organization (ARO) that integrates the scientific thought leadership of the International Anesthesia Research Society, and Duke University's Clinical Research Institute (DCRI) as well as the operational capabilities of the DCRI to develop and share knowledge that improves the care of patients around the world through innovative clinical research.

HILTON GRAND VACATIONS CLUB
 Orlando, FL

Booth: 405

Discount Vacations.

Technical Exhibits
Saturday through Monday – Event Center

Saturday, March 24 7:30 – 1:00	Sunday, March 25 7:30 – 1:00 and 4:30 – 6:30	Monday, March 26 7:30 – 12:00	
<p>NORTH AMERICAN PARTNERS IN ANESTHESIA Roslyn Heights, NY</p> <p>North American Partners in Anesthesia, LLP, the nation's largest and most progressive anesthesia group is currently recruiting BC/BE Anesthesiologists for its clinical locations in Maryland, New Hampshire, New York and Pennsylvania.</p> <hr/> <p>NOVAMED, LLC Rye, NY</p> <p>NovaMed is a specialist in critical care (sound and temperature) monitoring and laryngoscope systems. The range of products is both innovative and comprehensive with distinct NovaMed advantages (LifeSound Esophageal Stethoscopes, NovaTemp Foley Catheters with Temperature). Introductions include a solution for intubations within the MRI Suite – NovaMed's MRI Fiber Optic Laryngoscope - certified for up to 3.0 Tesla and the brightest ever UltraBrite Fiber Optic Laryngoscope – powered by Lithium /Xenon technology.</p> <hr/> <p>NOVO NORDISK INC. Princeton, NJ</p> <p>Novo Nordisk is a focused healthcare company and a world leader in diabetes care. We use recombinant technology to develop advanced therapies for diabetes, hemophilia, and growth hormone disorders.</p> <hr/> <p>ORGANON USA INC. Roseland, NJ</p> <p>Organon USA Inc., a renowned international ethical pharmaceutical company committed to pursuing innovations within Anesthesia, invites you to visit our booth to learn more about the latest clinical information for Zemuron® (rocuronium bromide), and Anzemet® dolasetron mesylate injection for the prevention and treatment of postoperative nausea and/or vomiting (PONV).</p>	<p>Booth: 409</p> <hr/> <p>Booth: 403</p> <hr/> <p>Booth: 203</p> <hr/> <p>Booth: 302</p>	<p>ORTHO-MCNEIL INC. Raritan, NJ</p> <p>Ortho-McNeil, Inc. strives to provide innovative, high quality, safe and effective treatments to healthcare professionals in primary care, hospitals and other care facilities.</p> <hr/> <p>PARKER MEDICAL, INC. Englewood, CO</p> <p>Parker Medical's products facilitate rapid, easy, accurate and safe intubations. Parker's award-winning, Flex-Tip endotracheal tube is designed to function like a bougie and to prevent airway trauma during intubation. Our Flex-It Stylet allows ETT curvature to be varied before or during intubation. Our TrachView Intubating Videoscope allows wide-angle, "hands-free" video intubation.</p> <hr/> <p>PENTAX CORPORATION Tokyo, Japan</p> <p>PENTAX-AWS is a novel rigid video laryngoscope system equipped with 2.4 inch colour LCD monitor. With PBLADE, the dedicated laryngoscope blade, it allows less experienced operators to perform fast and accurate tracheal intubation even in cases of difficult airway or restricted positioning. It also reduce damages to patients while intubation.</p> <hr/> <p>SAFER SLEEP, LLC Nashville, TN</p> <p>The SAFERsleep System provides an Anesthesia Safety and Record automation solution for The OR, using spoken drug confirmation bar coding Safety monitors which automatically collects vital signs and gases and provides an anesthetic electronic organizing system.</p> <hr/> <p>SHARN ANESTHESIA, INC. Tampa, FL</p> <p>Sharn Anesthesia will be showing temperature monitoring products, including the Crystalline™ forehead temperature strips. Sharn's Crystalline ST is the only temperature strip that reads and displays skin temperature. Airway management products feature laryngoscope blades and handles, stainless steel disposable blades, and a new unique one-piece disposable blade and handle, the Yeescop™. Ambu Laryngeal mask airways come in both straight and curved styles. See our website for other products. www.sharn.com.</p>	<p>Booth: 118</p> <hr/> <p>Booth: 206</p> <hr/> <p>Booth: 408</p> <hr/> <p>Booth: 416</p> <hr/> <p>Booth: 216</p>

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7:30 – 1:00

Sunday, March 25
7:30 – 1:00 and 4:30 – 6:30

Monday, March 26
7:30 – 12:00

STARR LIFE SCIENCES CORP.
Allison Park, PA

Booth: 218

STARR Life Science's cornerstone product, the MouseOx™, is the world's first and only pulse oximeter for mice and rats. The MouseOx™ is more than just a pulse oximeter. It provides real-time, beat-by-beat measurements of PULSE RATE, PULSE DISTENTION, ARTERIAL OXYGEN SATURATION AND RESPIRATORY RATE, all from one simple, easy to use, non-invasive sensor applied to the subject's leg. The MouseOx™ accurately measures physiologic parameters on ADULT through NEONATAL MICE AND RATS.

SUN-MED
Largo, FL

Booth: 303

Sun-Med is a leading manufacturer of Airway Management Products such as conventional, fiber optic and disposable Laryngoscopes, oral & nasopharyngeal Airways and many anesthesia accessories. Please stop by our booth #303 and receive our 2007 Anesthesia Accessory catalog.

VERATHON MEDICAL INC.
Bothell, WA

Booth: 215

The GlideScope® Video Laryngoscope, from Verathon™, is designed for 1st pass success. GlideScope® offers a consistently clear view of the airway, enabling quick intubation, reducing trauma for patients. Easy to learn and use, GlideScope® products make improved airway management technology more accessible and cost-effective for healthcare providers. (www.verathon.com).

W. B. SAUNDERS/MOSBY
Lake Mary, FL

Booth: 310

Please visit our booth to see the latest books and periodicals on anesthesiology, pain medicine, and critical care medicine.

**WOLTERS KLUWER HEALTH-
LIPPINCOTT WILLIAMS**

Booth: 309

Philadelphia, PA

Visit Wolters Kluwer Health - Lippincott Williams & Wilkins, proud publisher of *Anesthesia & Analgesia*, official journal of the International Anesthesia Research Society. Activate your online access and sign up for free eAlerts! Browse our complete line of publications, including Barash, Cullen & Stoelting's Clinical Anesthesia, Fifth Edition.

YUMA REGIONAL MEDICAL CENTER **Booth: 217**
Yuma, AZ

Dynamic and growing Anesthesia group seeks (1) additional full time CV Anesthesia physician with TEE Certification/training to perform approximately 40% CV/ 60% general Anesthesia. New heart program in the only acute care facility within 100 mile radius with high volume cardiac care cases. YAMS is an exclusive provider of anesthesia services to Yuma Regional Medical Center, a 333-bed JCAHO facility. Very competitive reimbursement based on blended unit rate. Yuma, Arizona is located between San Diego & Phoenix, Arizona (170 miles from each) on the banks of the Colorado River. Base population of 175,000. Winter weather (Oct-March) attracts up to 100,000 people annually. Relocation allowance. Sorry, no visa waivers.

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S-34	20	S-90	39	S-146	41	S-202	18	S-258	31
S-35	20	S-91	39	S-147	41	S-203	18	S-259	31
S-36	20	S-92	39	S-148	41	S-204	18	S-260	31
S-37	20	S-93	39	S-149	41	S-205	18	S-261	31
S-38	20	S-94	39	S-150	41	S-206	18	S-262	31
S-39	20	S-95	39	S-151	41	S-207	18	S-263	31
S-40	20	S-96	39	S-152	41	S-208	18	S-264	32
S-41	27	S-97	40	S-153	44	S-209	16	S-265	32
S-42	27	S-98	40	S-154	44	S-210	16	S-266	32
S-43	27	S-99	40	S-155	44	S-211	16	S-267	32
S-44	27	S-100	40	S-156	44	S-212	16	S-268	32
S-45	27	S-101	40	S-157	44	S-213	16	S-269	32
S-46	27	S-102	40	S-158	44	S-214	16	S-270	32
S-47	27	S-103	40	S-159	44	S-215	16	S-271	32
S-48	27	S-104	40	S-160	44	S-216	16		
S-49	27	S-105	40	S-161	44	S-217	16		
S-50	27	S-106	40	S-162	44	S-218	16		
S-51	27	S-107	40	S-163	44	S-219	16		
S-52	27	S-108	40	S-164	44	S-220	16		
S-53	27	S-109	40	S-165	44	S-221	16		
S-54	27	S-110	40	S-166	44	S-222	16		
S-55	27	S-111	40	S-167	44	S-223	16		
S-56	27	S-112	40	S-168	44	S-224	16		



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