Society for Technology in Anesthesia

2010
STA Annual Meeting
January 13-16, 2010
PGA National Resort and Spa
West Palm Beach, Florida
Dear STA Annual Meeting Attendee,

On behalf of the program committee and Board of Directors, welcome to this year’s STA Annual Meeting: I would personally like to thank Dr. John Sudkamp and Dr. Ravindra Prasad for organizing this event and securing the outstanding faculty, who have generously given their time to prepare and present their lectures and demonstrations.

The STA Annual Meeting affords an opportunity for clinicians, technicians, engineers and industry specialists at all levels to meet and exchange ideas on the future of anesthesia and healthcare related technologies. We hope that you all take advantage of this unique venue and take time to meet with your fellow attendees during the meeting.

With the increasing fiscal and political challenges that face healthcare and industry, the Society for Technology in Anesthesia and its Annual Meeting become more essential in understanding and shaping our future. As a Society, we look for continued growth and new input moving forward.

Thank you for joining us. We look forward to a successful meeting.

Mohamed Rehman, MD
STA President
**Mission Statement**
The Society's mission is to improve the quality of patient care by improving technology and its application. The Society promotes education, research, collaborates with location, national and international organizations, sponsors meetings, exhibitions, awards grants, and recognizes achievement.

**Meeting Objectives**
1. Identify challenges and barriers to technology applications that significantly enhance patient safety in large and small medical institutions

2. Participants will gain an understanding of the benefits, risks and complexity of an A.I.M.S., and what systems would benefit their current practice setting. Participants will engage in a discussion with those who have had experience implementing an A.I.M.S., system.

3. Participants will gain a greater understanding of the current state and usage of imaging technology in the field of Anesthesia. These applications include ultrasound imaging, brain imaging of anesthetic induced unconsciousness and airway imaging and virtual bronchoscopy using cone beam technology.

4. Participants will gain a greater understanding of the medicolegal implications of the electronic anesthesia record. Information will be presented on the legal precedents of malpractice exposure and the future of healthcare delivery via telemonitoring.

**CME Accreditation Statement**
This activity has been planned and implemented with the Essential Areas of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the Society for Technology in Anesthesia (STA) and the International Anesthesia Research Society (IARS.) The IARS is an accredited by the ACCME to provide continuing medical education for physicians. The IARS designates this continuing medical educational meeting for a maximum 15.25 AMA PRA Category 1 Credit(s)TM. Physicians should claim only those hours of credit that he/she actually spent in the educational activity.

**Speaker and Presenter Disclosure Statement**
The International Anesthesia Research Society (IARS) adheres to ACCME standards regarding industry support of continuing education. Disclosure of faculty and commercial relationships, if any will be made known at the activity. Speakers are also expected to openly disclose inclusion or discussion of any off-label, experimental, or investigational use of drugs or devices in their presentations.
# STA Annual Meeting 2010: Daily Program Schedule

## Wednesday January 13, 2010

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Event</th>
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<tbody>
<tr>
<td>18:00 - 19:30</td>
<td>Bella Lago</td>
<td>Opening Reception with Vendors &amp; Registration</td>
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## Thursday January 14, 2010

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<tr>
<th>Time</th>
<th>Location</th>
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<tr>
<td>07:00 - 08:00</td>
<td>Bella Lago</td>
<td>Registration &amp; Continental Breakfast</td>
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<tr>
<td>08:00 - 10:00</td>
<td>Masters Ballroom</td>
<td>Session 1: Electronic Health Records (EHRs)</td>
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<td>08:00 - 08:15</td>
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<td>Opening Remarks</td>
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<tr>
<td></td>
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<td>*Mohamed Rehman, MD</td>
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<tr>
<td>08:15 - 09:30</td>
<td></td>
<td>Keynote Address: Meeting the Challenge of Electronic Health Records for All</td>
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<td>*Don Detmer, MD</td>
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<tr>
<td>09:30 - 10:00</td>
<td>Bella Lago</td>
<td>Break with Exhibits and Posters</td>
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<tr>
<td>10:00 - 13:15</td>
<td>Masters Ballroom</td>
<td>Session 2: Technology Application to Large and Small Institutions</td>
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<td></td>
<td>*David Feinstein, MD – Moderator</td>
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<tr>
<td>10:00 - 10:35</td>
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<td>Technology: One Size Does NOT Fit All</td>
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<td></td>
<td></td>
<td>*Keith Ruskin, MD</td>
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<tr>
<td>10:35 - 11:10</td>
<td></td>
<td>Large Institutions v. Private Practice: What’s Lost In Translation?</td>
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<tr>
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<td>*Chris Quartararo, MD</td>
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<tr>
<td>11:10 - 11:45</td>
<td></td>
<td>Telemonitoring – the Future of Healthcare Delivery</td>
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<td>*Michael Vigoda, MD, MBA</td>
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<tr>
<td>11:45 - 12:00</td>
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<td>Panel Discussion</td>
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<tr>
<td>12:00 - 13:15</td>
<td>Honda Pavilion*</td>
<td>Lunch with Vendors &amp; Poster Viewing</td>
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<td>*Weather Permitting</td>
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</table>
Thursday January 14, 2010 (continued)

13:15 – 15:00 Masters Ballroom

Session 3: Non Operating Room Anesthesia: Can it Work for Big and Small Institutions?
Charlotte Bell, MD - Moderator

13:15 – 13:35
Building an Ambulatory Pediatric Procedure Center in a Small Regional Hospital
Charlotte Bell, MD

13:35 – 13:55
PERIoperative Technology for Large Hospitals for Non Operating Room Anesthesia
Keith Ruskin, MD

13:55 – 14:15
Managing Non Operating Room Locations with a Small Service in a Large, Multi-Hospital Institution
Gordana Stjepanovic, MD

14:15 – 14:30
Panel Discussion

14:30 – 15:00 Bella Lago
Break with Exhibits and Posters

15:00 – 17:45 Masters Ballroom

Session 4: Research Awards & Presentation
Kirk Shelley, MD, PhD – Moderator

15:00 – 16:30
Research Awards & Presentation

16:30 – 17:45
Guided Poster Viewing with Q&A

Friday January 15, 2010

07:00 – 08:00
Registration & Continental Breakfast

08:00 – 10:30 Masters Ballroom

Session 5: Imaging Technology in Anesthesia
D. John Doyle, MD, PhD – Moderator

08:00 – 08:40
Ultrasound Imaging in Anesthesia: The State of the Art
Paul Bigeleisen, MD

08:40 – 09:15
Brain Imaging and the Neurophysiologic Basis of Anesthesia-Induced Unconsciousness
Michael Alkire, MD
<table>
<thead>
<tr>
<th>Time</th>
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</table>
| 09:15 – 09:35 | Airway Imaging and Virtual Bronchoscopy Using Cone-Beam Technology  
D. John Doyle, MD, PhD |
| 09:35 – 10:00 | Panel Discussion                                                  |
| 10:00 – 10:30 | Break with Exhibits and Posters                                   |
| 10:30 – 13:30 | Masters Ballroom Session 6: Technology and Safety                 |
| 10:30 – 10:55 | Technology and Aviation Safety: Making Anesthesia Safer        
Keith Ruskin, MD – Moderator |
| 10:55 – 11:25 | Evolution in the Human-Machine Interface                          
David Kazdan, MD |
| 11:25 – 11:55 | Bringing Innovative Ideas to Market                               
Joan Spiegel, MD |
| 11:55 – 12:15 | Panel Discussion                                                 |
| 12:15 – 13:30 | STA Business Luncheon & Awards                                   |
|            | Mohamed Rehman, MD – President                                    |
| 13:30 – 15:30 | Session 7: Concurrent Workshops                                   |
|            | Young Researchers Workshop                                         
Kirk Shelley, MD, PhD |
|            | Computers in Anesthesia (CIA) Show & Tell Contest                 
Butch Loeb, MD |
|            | Interoperability Demonstrations & Workshop                        
Jullian Goldman, MD |
Friday January 15, 2010 (continued)

| 15:30 – 16:30 | Masters Ballroom | The Technology of the Golf Swing: How Virtual Reality & Simulators Have Changed the Game  
Director of Instruction, Leadbetter Academy of Golf |
| 16:30 – 17:30 | | Use of PGA Virtual Reality Simulator |

18:00 – 18:30  
Motor Coach Transportation Leaves from the PGA Hotel Lobby  
Wine Tasting Dinner at Seasons 52  
11611 Ellison Wilson Road  
Palm Beach Gardens, FL  
561-302-3369

Wine Tasting Dinner Menu

AMUSE  
Goat Cheese Ravioli with Tomato and Basil  
Paired with a Tilia Torrontes

FIRST COURSE  
Earth Bound Farms Organic Winter Green Salad  
With truffle dressing, grilled Portobello mushrooms and Parmesan cheese  
Paired with a ZD Chardonnay

SECOND COURSE  
Manchester Farms Boneless Quail Breast  
With mashed sweet potatoes and maple-bourbon sauce  
Paired with a Chehalem Pinot Noir

THIRD COURSE  
Char-Crust Filet Mignon with grilled tamarind shrimp  
With garlic mashed potatoes and grilled vegetables  
Paired with a De Toren Fusion V

FOURTH COURSE  
Mini Indulgences  
Individual servings of classic desserts  
Coffee & Tea Service

22:30 – 23:00  
Motor Coach Transportation provided back to PGA
<table>
<thead>
<tr>
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| 08:00 – 09:00 | Masters Ballroom | **Session 8: Multicenter Perioperative Outcomes Group (MPOG): Can the Small Institutions Benefit From It?**  
Sachin Kheterpal, MD, MBA |
| 09:00 – 11:00 | Masters Ballroom | **Session 9: Medicolegal Implications of the Electronic Anesthesia Record**  
Jeffrey M. Feldman, MD, MSE – Moderator |
| 09:00 – 09:30 |                 | Malpractice Exposure and the Electronic Anesthesia Record  
Jeffrey M. Feldman, MD, MSE |
| 09:30 – 10:00 |                 | The Electronic Anesthesia Record – A View from the Courtroom  
Andrew Worek, JD |
| 10:00 – 10:30 |                 | Designing an Anesthesia Information System as a Risk Management Tool  
Michael Vigoda, MD, MBA |
| 10:30 – 10:45 |                 | Panel Discussion                                                            |
| 10:45 – 11:00 | Bella Lago       | **Break**                                                                     |
| 11:00 – 12:30 | Masters Ballroom | **Session 10: Case Presentations: AIMS Lessons Learnt**  
Mohamed Rehman, MD – Moderator |
| 11:00 - 11:20 |                 | Simple Solution for Small Group Practice  
Vernon Huang, MD |
| 11:20 – 11:40 |                 | Lessons Learnt During Implementation  
Ravindra Prasad, MD |
| 11:40 – 12:00 |                 | Electronic Anesthesia Information Management System to Satisfy the Joint Commission Requirements for Ongoing Practice Professional Evaluations  
Jesse Ehrenfeld, MD |
| 12:00 – 12:20 |                 | Using A.I.M.S. for Logging Resident Case Data  
Allan Simpaa, MD |
Saturday January 16, 2010 (continued)

12:30

STA Meeting Adjourns

14:40 – 18:00

STA Golf Outing

*Pre-registration required!

ALL Annual Meeting Presentations will post on the STA Website by February 15, 2010

Please visit www.stahq.org
THANK YOU!
Society for Technology in Anesthesia 2010 Corporate Members

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<thead>
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Corporate Membership Profiles

Cardiopulmonary Corp.
Cardiopulmonary Corp. is all about improving healthcare. We have a broad vision and a strong dedication to clinical excellence. We are shifting the paradigm in hospital-based medicine. Cardiopulmonary Corp. designs, develops, and implements medical enterprise software for mission-critical decision support used in a wide-range of acute care applications. The Company, based in Connecticut, is a market leader of hospital-wide, IT-centric solutions used in the real-time management and surveillance of critically ill patients.

Cerner Corporation
Today's practice of anesthesia demands electronic access to complete, accurate information. Cerner Millennium® SurgiNet® unifies the practice of surgery and anesthesia to enhance throughput and utilization of the service, while supporting effective care delivery and business practice management. Cerner Corporation is the leading U.S. supplier of healthcare information technology solutions.

CMS Anesthesia
Description not available at time of printing.

Codonics
Codonics incorporated in 1982, is a privately held corporation headquartered in Cleveland, Ohio and is the world’s leading manufacturer of medical imagers. Codonics has regional offices in the U.S., Portugal, and Japan and a strong worldwide sales and service distribution network. Codonics is strongly committed to continued development of innovative imaging products compatible with existing technologies.
Covidien

Covidien is a global $9 billion dollar manufacture of leading medical devices and supplies such as imaging products and pharmaceuticals. Covidien employs more than 43,000 people worldwide and is dedicated to working with medical professionals to improve patients outcomes. Its portfolio of leading brands includes; Nellcor™ Pulse Oximeter, Puritan Bennett Ventilator™, and Mallinckrodt Baker.

Docusys

Docusys Inc provides comprehensive digitization of anesthetics, incorporates customizable decision support, professional fee capture, comorbid condition documentation, tracking and billing of drugs to maximize quality and financial return. The system incorporates an intravenous drug monitor, DocuJet® which utilizes bar coding and digital imagining to digitize drug delivery.

Dräger Medical

Dräger Medical is one of the world’s leading manufacturers of medical equipment. The company offers products, services and integrated CareArea™ solutions throughout the patient care process; emergency care, preoperative care, critical care, prenatal care and home care. Dräger Medical employs nearly 6,000 people worldwide.

Edwards Lifesciences

Edwards Lifesciences is the world leader in hemodynamic monitoring systems which are used to measure a patient’s heart function in the intensive care, surgical, and emergency room settings. Since introducing the Swan-Ganz® catheter, the company has offered an extensive line of technologies which include the PreSep™ Central Venous Oximetry Catheter, Vigileo™ Monitor, Vigilance™ CCO/SvO2/CEDV Monitor, TruWave™ disposable pressure transducers, VAMP™ closed arterial blood sampling systems, and Vantex™ central venous antimicrobial catheters. In 2005, Edwards launched the innovative FloTrac™ System, which provides real-time hemodynamic monitoring (including continuous cardiac output, stroke volume, stroke volume variation, and systemic vascular resistance) directly from an arterial line.

*No exhibit display
GE Healthcare

GE Healthcare is dedicated to helping transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies enables healthcare professionals around the world to deliver new ways to predict, diagnose and treat disease earlier.

iMDsoft

iMDsoft is a leading provider of clinical information systems dedicated to automating the critical care and perioperative continuum. The Meta Vision™ suite is a fully integrated, customizable solution for data collection and presentation, order management, clinical analysis and decision support. Major medical centers across the United States and Europe and Asia use iMDsoft technology to improve quality care, promote patient safety, enhance financial performance, support research and compliance while achieving sustainable market leadership.

Masimo

Masimo is a global medical technology company that develops and manufactures innovative noninvasive monitoring technologies, including medical devices and a wide array of sensors that enable earlier detection and treatment of potentially life-threatening conditions. A key medical technology innovator, Masimo is responsible for the invention of award-winning noninvasive technologies that are revolutionizing patient monitoring, including Masimo SET® pulse oximetry, Masimo Rainbow SET® Pulse CO-Oximetry, Masimo noninvasive and continuous total hemoglobin (SpHb™), and Masimo Patient SafetyNet™.

McKesson

McKesson provides a total anesthesia solution that gives you the power to improve your clinical and financial operations. Our revenue cycle outsourcing services help anesthesiologists optimize collections, increase revenue and manage compliance risks. McKessons' anesthesia care solution complements the delivery of quality anesthesia care with expert documentation, streamlined workflow and improved financial positions for the anesthesiologists and hospital.
Omnicell

Omnicell is a leading provider of systems and software solutions targeting patient safety and operational efficiency in healthcare facilities. Since 1992, Omnicell has worked with numerous healthcare facilities to enhance patient safety and allow clinicians to spend more time with their patients. Omnicell’s mission is to provide the best customer experience in healthcare, helping hospitals reduce medication errors, operate more efficiently, and decrease costs.

Oridion Microstream® Capnography

Oridion Microstream® Capnography; Effective, proven airway management providing the earliest indication of airway compromise. Microstream® Capnography combines proprietary sensing technology eliminating the need for gas compensation. Situation-specific interfaces for oral, nasal, and incubated sampling provide accurate and easy to use assessment of your patient’s ventilation in any clinical setting, including PCA and procedural sedation.

Philips Healthcare

Philips Healthcare is a worldwide provider of Diagnostic Imaging Products, Cardiac and Physiological Monitoring Systems and Information Management applications. Philips Healthcare currently offers point of care clinical information systems that automatically record, store and provide reports for a given care setting. Today Philips offers Medical IT solutions for the perioperative environment (CompuRecord), the OB environment (OB TraceVue) and the critical care environment (Intellivue Clinical Information Portfolio Critical Care or ICIP, CC)

Picis

Picis is a global provider of innovative information solutions that enable rapid and sustained delivery of clinical, financial and operational results in the acute care areas of the hospital — the emergency department (ED), operating rooms (ORs), post-anesthesia care units (PACUs) and intensive care units (ICUs). Picis offers the most advanced suite of integrated products and services focused on these life-critical areas of the hospital where the patients are the most vulnerable, the care process is the most complex and an increasing majority of hospital costs and potential revenue are concentrated
SEDLine, Inc

Description not available at time of printing.

Shareable Ink®
Shareable Ink® delivers enterprise-grade digital pen and paper solutions for healthcare. In contrast to traditional keyboard-based systems, the Shareable Ink approach offers the fastest and most natural data input method without disrupting familiar workflows. Shareable Ink effortlessly captures all the information written on paper forms using a specialized ball point pen. As no software is installed onsite, Shareable Ink is suitable for any size organization, from the solo practitioner to the healthcare enterprise.

Surgical Information Systems
SIS provides surgery management and anesthesia solutions that improve efficiency and quality for surgical services through the use of technology. SIS' fully integrated anesthesia solution enables anesthesiologists to electronically record/capture all necessary anesthesia record information, increasing productivity and reducing costs by optimizing workflow and minimizing time spent on administrative tasks.

Verathon Medical®
Verathon Medical® (Canada) designs, manufactures and distributes reliable, state-of-the-art medical devices and services that offer a meaningful improvement in patient care to the health care community. The company's flagship brand, BladderScan® bladder volume measurement instruments, is used in Urology, Acute Care, Primary Care, and Extended Care and is considered a standard of care. Verathon® was ranked among the fastest growing technology companies in Washington State in Deloitte's prestigious "Technology Fast 50" program.

*No exhibit display*
STA 2010 Annual Meeting Speaker Disclosure Information

Michael Alkire, MD
No Disclosures

Charlotte Bell, MD
No Disclosures

Paul Bigeleisen, MD
Consultant Life-Tech

Don Detmer, MD
Consultant CS Placement
Gates Foundation Grant Recipient

D. John Doyle, MD, PhD
No Disclosures

David Feinstein, MD
No Disclosures

Jesse Ehrenfeld, MD
No Disclosures

Jeffrey M. Feldman, MD, MSE
No Disclosures

Jullian Goldman, MD
No Disclosures

Vernon Haung, MD
Shareable Ink

David Kazdan, MD
No Disclosures

Sachin Kheterpal, MD, MBA
No Disclosures

Butch Loeb, MD
No Disclosures
Speaker Disclosure Information Continued

Ravindra Prasad, MD
No Disclosures

Christopher Quartararo, MD
No Disclosures

Mohamed Rehman, MD
No Disclosure

Keith Ruskin, MD
No Disclosures

Kirk Shelley, MD, PhD
No Disclosures

Joan Spiegel, MD
No Disclosures

Allan Simpao, MD
No Disclosures

Gordana Stjepanovic, MD
No Disclosures

John Sudkamp, MD
No Disclosures

Michael Vigoda, MD, MBA
No Disclosures

Andrew Worek, JD
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Aynien Alian, MD
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Noor Mohammad Arefian, DR
No Disclosures

Ashok Kumar Arumugam, MD
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Max Biondi, HS
Research Cardiopulmonary Corp.

Jason Brookman, MD
No Disclosures

Elizabeth Card, ADN, RN
Research Study Sponsorship: Nihon Kohden America, Inc.

Ephraim Carlebach, PhD
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Thomas Edrich, MD, PhD
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Jesse Ehrenfeld, MD, MPH
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Matthias Görges, MS
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Jin-Oh Hahn, PhD
No Disclosures
Society for Technology in Anesthesia

STA 2010 Annual Meeting Abstract Disclosures

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No Disclosures

Mary Jeskey, RN, BSN
Nihon Kohden America, Inc.

Matthew Joy, MD
No Disclosures

Walter Karlen, PhD
Draeger Medical

Sara Khosravi, Masters
No Disclosures

David Kramer, MD
No Disclosures

Michael Seltz Kristensen, MD
Research Grant: AMBU A/S, Denmark

Marina Krol, PhD
No Disclosures

David Liu, BE (Hons)
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Jeff E Mandel, MD, MS
No Disclosures

Jeff Mueller, MD
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John Pawlowski, MD, PhD
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Alfred Pinchak, MD, PhD, PE
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Mindaugas Pranevicius, MD
*Gran: National Instruments Medical Device Development*

Michelle Raczka, MD
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Brian Rothman, MD
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Franklin Scamman, MD
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Christopher Scheib, MD
*No Disclosures*

Matthew Seitman
*Aspect Medical Inc.*

Allan Simpao, MD
*No Disclosures*

Paul St. Jacques, MD
*No Disclosures*

Hanne Storm, MD, PhD
*Part Owner - Med-Storm Innovation*

Donald Voltz, MD
*No Disclosures*

Karl Wagner, MD
*No Disclosures*
<table>
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<tr>
<th>Abstract #</th>
<th>Title</th>
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<tbody>
<tr>
<td>1</td>
<td>Comparing the OSBRS to Procedural Room Noise Level</td>
<td>Michelle Raczka, M.D.</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Integration of 2nd Year HMS Pharmacology Curriculum</td>
<td>John Pawlowski, M.D., Ph.D.</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Noise in the Pediatric Operating Room</td>
<td>Michelle Raczka, M.D.</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>2009 Survey of Anesthesia Information Management System Utilization in Arizona</td>
<td>Jeff Mueller, M.D.</td>
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<tr>
<td>5</td>
<td>Comparison of the Accuracy of the IVY 3200 And Oridion Capnostream® in the Measurement of Respiratory Rate</td>
<td>Urey Kang, B.S.</td>
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<td>6</td>
<td>Design of an Automated ACGME Case Log System Using Anesthesia Information Management System Data</td>
<td>Allan Simpao, M.D.</td>
<td>6</td>
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<td>8</td>
<td>Utilization of AIMS Data for Physician Credentialing</td>
<td>Jesse Ehrenfeld, M.D., M.P.H.</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>Parametric Template Versus Non-Parametric LOWESS Technique Analysis for Demonstrating Best-Fit Equations</td>
<td>Terence Rafferty, M.D., M.B.A.</td>
<td>9</td>
</tr>
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<td>10</td>
<td>Using YTD Call Points and Annual Call Points for More Precise Monthly Call Assignments</td>
<td>Brian Rothman, M.D.</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>Painful Stimulation in Propofol-Anesthetized Patients Results in Clinical Stress and Change of Skin Conductance, But Not Change in BIS Value or BIS Variability.</td>
<td>Hanne Storm, M.D., Ph.D.</td>
<td>11</td>
</tr>
<tr>
<td>12</td>
<td>Two Approaches to the Use of an IPhone as a Mobile PIMS Device</td>
<td>Brian Rothman, M.D.</td>
<td>12</td>
</tr>
<tr>
<td>13</td>
<td>Implementation of a Perioperative Information Management System in an Ambulatory Care Setting</td>
<td>Brian Rothman, M.D.</td>
<td>13</td>
</tr>
<tr>
<td>14</td>
<td>A MATLAB Toolkit to Acquire and Analyze Physiologic Waveforms</td>
<td>John Doyle, M.D., Ph.D.</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>External Oscillatory Blood Pressure - Novel Blood Pressure Measurement Method (EOBP™)</td>
<td>Mindaugas Pranevicius, M.D.</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>A Cost Analysis of the Flexible Optical Scope (Fiber- or Videoscope) for Difficult Intubation in Comparison With the Ambu® aScope™ Disposable Videoscope</td>
<td>Michael F. Tvede, M.D.</td>
<td>16</td>
</tr>
<tr>
<td>17</td>
<td>A Prospective Randomised Study Comparing Right and Left Sided Internal Jugular Venous Cannulation by the Traditional Blind Anatomical Landmark Technique</td>
<td>Aswin Sayiram Subramanian Janakiran, M.D., J.R.</td>
<td>18</td>
</tr>
<tr>
<td>18</td>
<td>Classification of Anesthesia Cases Using Surgical CPT Codes</td>
<td>Ira Hofer, M.D.</td>
<td>19</td>
</tr>
<tr>
<td>19</td>
<td>Paperless Solutions for an Academic Anesthesia Department</td>
<td>Marina Krol, Ph.D.</td>
<td>20</td>
</tr>
<tr>
<td>20</td>
<td>Design and Implementation of an Automated Aims Research Module</td>
<td>David Kramer, M.D.</td>
<td>21</td>
</tr>
<tr>
<td>21</td>
<td>The Effect of Meditation on Consciousness: A Study Using Medical Technologies</td>
<td>Matthew Seitman</td>
<td>22</td>
</tr>
<tr>
<td>22</td>
<td>The Log-Log EEG Spectrogram as a Measure of Anesthetic Depth</td>
<td>Christopher Scheib, M.D.</td>
<td>23</td>
</tr>
<tr>
<td>23</td>
<td>A Disposable Flexible Intubation Videoscope, the Ambu® aScope™, and the First Experiences With Awake Intubation in Patients With Difficult Airways</td>
<td>Michael Kristensen, M.D.</td>
<td>24</td>
</tr>
<tr>
<td>24</td>
<td>Closed-Loop Compartmental Drug Concentration Estimation</td>
<td>Jin-Oh Hahn, Ph.D.</td>
<td>26</td>
</tr>
<tr>
<td>25</td>
<td>Capnobase: Signal Database and Tools to Collect, Share and Annotate Respiratory Signals</td>
<td>Walter Karlen, Ph.D.</td>
<td>27</td>
</tr>
<tr>
<td>26</td>
<td>Anemia Screening by Non-Invasive Measurement of Hemoglobin Using Occlusion Spectroscopy</td>
<td>Aharon Weinstein, M.Sc.</td>
<td>28</td>
</tr>
<tr>
<td>27</td>
<td>Propofol Pharmacodynamics in Children using State Entropy</td>
<td>Sara Khosravi</td>
<td>29</td>
</tr>
<tr>
<td>Abstract #</td>
<td>Title</td>
<td>Presenting Author</td>
<td>Page</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------</td>
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<td>------</td>
</tr>
<tr>
<td>28</td>
<td>Interfacing the Alaris Smart IV Pump to the Epic Hospital Information System</td>
<td>Franklin Scamman, M.D.</td>
<td>30</td>
</tr>
<tr>
<td>29</td>
<td>Interfacing the General Electric S/5 Monitor and the ADU Anesthesia Machine to the Epic Hospital Information System</td>
<td>Franklin Scamman, M.D.</td>
<td>31</td>
</tr>
<tr>
<td>30</td>
<td>Measurement of Tracheal Pressure with a Codman Catheter is Possible Without Distortion of Airway Pressure in an In-Vitro Model</td>
<td>James Philip, M.D., M.S.E.E.</td>
<td>32</td>
</tr>
<tr>
<td>32</td>
<td>Evaluation of the METI ECS and METI HPS Mannequins for Respiratory Monitoring Displays Research</td>
<td>David Liu, B.E.(Hons)</td>
<td>34</td>
</tr>
<tr>
<td>33</td>
<td>Detection of Fresh Gas Leakage During Induction and Emergence</td>
<td>David Liu, B.E.(Hons)</td>
<td>35</td>
</tr>
<tr>
<td>34</td>
<td>A Survey to Determine Nurse Adaptability to New Wireless Monitoring Technology on a Post Operativefloor.</td>
<td>Mary Jeskey, R.N., B.S.N.</td>
<td>36</td>
</tr>
<tr>
<td>36</td>
<td>Evaluation of an Intensive Care Unit Far View Display</td>
<td>Matthias Görges, M.S.</td>
<td>39</td>
</tr>
<tr>
<td>37</td>
<td>Development of an Emergency Drug &amp; Airway Transport System Kit</td>
<td>Jason Brookman, M.D.</td>
<td>40</td>
</tr>
<tr>
<td>38</td>
<td>Automating Real Time Data Transfer From a Cardiopulmonary Bypass Machine to an AIMS Database</td>
<td>Matthew Joy, M.D.</td>
<td>41</td>
</tr>
<tr>
<td>39</td>
<td>Automating Patient Transfer of Care Data Forms from an Anesthesiology Information Management System - A Non-Trivial Problem</td>
<td>Alfred Pinchak, Ph.D., M.D., P.E.</td>
<td>42</td>
</tr>
<tr>
<td>40</td>
<td>API Calls Automate Data Extraction from an AIMS Database</td>
<td>Alfred Pinchak, Ph.D., M.D., P.E.</td>
<td>43</td>
</tr>
<tr>
<td>41</td>
<td>Design and Implementation of an Optimal Patient Controlled Sedation System</td>
<td>Jeff E Mandel, M.D., M.S.</td>
<td>44</td>
</tr>
<tr>
<td>42</td>
<td>Testing Medical Devices - Data Collection with an AIMS EMR System.</td>
<td>Alfred Pinchak, Ph.D., M.D., P.E.</td>
<td>45</td>
</tr>
<tr>
<td>43</td>
<td>Measuring Venous Oxygen Saturation Using the Photoplethysmograph Waveform</td>
<td>Kirk Shelley, M.D., Ph.D.</td>
<td>46</td>
</tr>
<tr>
<td>44</td>
<td>Design and Implementation of an Intravenous Infusion Pump User Interface for Anesthesiologists in the Operating Room</td>
<td>David Liu, B.E.(Hons)</td>
<td>47</td>
</tr>
<tr>
<td>45</td>
<td>A Novel Way For Blood Withdrawal by an Angiocath or a Needle from a Superfacial Peripheral Vein</td>
<td>Ahmad Elsharydah, M.D.</td>
<td>48</td>
</tr>
</tbody>
</table>