COLLEGE OF PHYSICIANS & SURGEONS
DEPARTMENT OF ANESTHESIOLOGY

ACADEMIC EVENING
2006-2015
18th Annual Academic Evening

Wednesday, May 20th, 2015
Heart Hospital Conference Center, 1st Floor, Riverview Terrace

Program
4:15 PM Poster Exhibit
6:15 PM Oral Presentations
7:30 PM Commentary and Awards

Guest Discussant
Berend Mets, MB, ChB, PhD, FRCA, FFA (SA)
Eric A. Walker Professor and Chair
Department of Anesthesiology
Penn State Milton S. Hershey Medical Center
Hershey, PA

Moderator
Robert N. Sladen, MBChB, FCCM

Chair, Program Selection Committee
Charles W. Emala, MD
ABSTRACT SELECTION COMMITTEE

Mitchell F. Berman, MD
Jeanine M. D’Armiento, MD, PhD
Neil Harrison, PhD
Eric J. Heyer, MD, PhD
Heidi Jerome, MD
H. Thomas Lee, MD, PhD
Guohua Li, MD, DrPH
Jose Moron-Concepcion, PhD
Leila Mei Pang, MD
Joachim Scholz, MD
Richard M. Smiley, MD, PhD
Lena S. Y. Sun, MD
Robert A. Whittington, MD
Charles W. Emala, MD

ACKNOWLEDGMENTS

Cumberland Pharmaceuticals
Gauss Surgical, Inc.
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## PREVIOUS ACADEMIC EVENINGS

<table>
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<tr>
<th>Year</th>
<th>Guest Judge</th>
<th>First Prize</th>
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</table>
| 2014 | Jeanine Wiener-Kronish, MD *(Harvard Medical School)* | May Rabadi, PhD  
Andrea Miltiades, MD |
| 2013 | Kevin Tremper, MD *(University of Michigan)* | Jennifer Danielsson, MD  
John G. Gaudet, MD |
| 2012 | Keith Anthony Jones, MD *(University of Alabama)* | C. David Mintz, MD, PhD  
Hani Malone, MD |
| 2011 | Philip Lumb, MBBS, FCCM *(Keck School of Medicine, USC)* | C. David Mintz, MD, PhD  
Christopher Webb, MD |
| 2010 | Neal Cohen, MD, MPH, MS, *(UCSF)* | Sang Won Park, PhD  
Steven Yap, MD |
| 2009 | Ronald G. Pearl, MD, PhD *(Stanford University)* | Sang Won Park, PhD  
Carmen Guerra, MPH |
| 2008 | Jonathan Moss, MD *(The University of Chicago)* | Jennifer Evans  
Frederick T. Billings, MD |
| 2007 | Mark F. Newman, MD *(Duke University Medical Center)* | Hannah Wunsch, MD  
Minjae Kim, MD |
| 2006 | Douglas Coursin, MD *(University of Wisconsin)* | George Gallos, MD  
Hannah Wunsch, MD |
| 2005 | Mark Warner, MD *(Mayo Clinic, Rochester, MN)* | George Gallos, M |
| 2004 | Patricia A. Kapur, MD *(UCLA School of Medicine)* | Edmund Jooste, MD |
| 2003 | Peter Glass, MD *(SUNY at Stony Brook)* | Jason Scott, MD |
| 2002 | David Longnecker, MD *(University of Pennsylvania)* | Edmund Jooste, MD |
| 2001 | Simon Gelman, MD *(Brigham & Women’s Hospital)* | Yejun Zhao, MD |
| 2000 | John Kampine, MD *(Medical College of Wisconsin)* | H.T. Lee, MD, PhD |
Oral Presentations Finalists

1. Dexmedetomidine’s inhibitory effects on acetylcholine release from cholinergic nerves in guinea pig trachea: a mechanism that accounts for its clinical benefit during airway irritation. Maya Mikami, Yi Zhang, Charles W Emala

2. Peptidyl arginine deiminase-4 exacerbates ischemic acute kidney injury by finding NEMO (NFkB Essential Modulator). May Rabadi, Mihwa Kim, Kevin Brown and H.T. Lee

3. Reduced Middle Cerebral Artery Velocity During Cross-clamp Predicts Cognitive Dysfunction After Carotid Endarterectomy. Joanna L. Mergeche, Samuel S. Bruce, E. Sander Connolly, Eric J. Heyer

4. Epidemiology of Vasopressor Use Among Adults with Septic Shock in the United States. Emily Vail, Hayley B. Gershengorn, Guohua Li, Hannah Wunsch


Poster Presentation Finalists

6. Drinking during adolescence: Effects of acute and chronic ethanol on dopamine neurons in the ventral tegmental area. E. M. Avegno; A. Mrejeru; M. Salling; D. Sulzer; and N. L. Harrison


8. Regulating the Spinal Immune Response to Peripheral Nerve Injury: A Role for Trem2 and Primary Somatosensory Neurons. Brendan Smith, John Whang, Eric X. Wei, Ira Schieren, Joachim Scholz


10. Epidemiology of critical care admissions in a tertiary hospital of sub-Saharan Africa. Meghan Prin, Julia Sobol

11. Chloroprocaine Spinal Compared to General Anesthesia for Outpatient Knee Arthroscopy – A Retrospective Analysis. Peter Fu, Ryan Ivie, Robert Maniker
**Poster Presentations**

**Basic Research**


13. Resolving the Molecular Composition of Synapses in Central Nociceptive Pathways. Zafeer Baber, Joachim Scholz


**Clinical Research**


17. Caudal epidural versus penile block for post-operative analgesia in patients undergoing circumcision with or without chordee repair. Pamela Wendel, Nick Davis

18. Incidence and associated morbidity and mortality of perioperative aspiration in pediatric inpatients. L. Eisler, M. Sun, C. Ing

19. Cost analysis of anesthesia-related adverse events during labor and delivery in New-York State. Tristan D. Hunt, Jean Guglielminotti, Guohua Li

20. Exploring the effectiveness of traditional vs flipped classroom strategies in fellowship didactics. Rima Rahal, Daniela Darrah


22. Comparison of the effect of preoperative meld and meld-na scores on outcome after liver transplantation. T. Lai, G. Wagener


24. Symbiotic Learning: Regional Anesthesiologists Teaching Clinical Correlations in a Gross Anatomy Laboratory for Medical Students. Nicole Spence, Vibhuti Kowluru, Danielle Ludwin

25. Inpatient and Ambulatory MRI Utilization in Pediatric Patients in New York State. Yolanda Y. Huang, Caleb Ing, Lena S. Sun
26. Analysis of Rhabdomyolysis in Pediatric Surgical Inpatient Admissions Using the KIDS Database. David Maduram, Teeda Pinyavat


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<th>Moderator</th>
<th>Monitor A</th>
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<tr>
<td>Gebhard Wagener, MD</td>
<td>Ex Vivo Abdominal Tumor Resection and IMA Reconstruction. <strong>Bryan Tischenkel</strong></td>
<td>Unanticipated Difficult Airway in a Patient with Herpes Zoster in the Maxillary and Mandibular branches of the Trigeminal Nerve. <strong>Namrata Khimani</strong></td>
<td>Sciatic Radicular Pain Resulting from a Non-traumatic Inferior Gluteal Artery Aneurysm. <strong>Stephen Miller</strong></td>
<td>Intraoperative Management of Patients with Left Ventricular Assist Devices Undergoing Endoscopic Procedures. <strong>Dennis Thiel</strong></td>
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<td>Anesthetic management of an infant with liver failure and hypertrophic cardiomyopathy for orthotopic liver transplantation. <strong>Neil Masters</strong></td>
<td>Anesthetic Management In A Patient With Previous Emergent Cricothyroidotomy and Lidocaine Allergy Presenting For Renal Transplantation. <strong>Jerri Chen</strong></td>
<td>Combined Bilateral Rectus Sheath and TAP Blocks for Xiphoid to Pubis Incision. <strong>Ryan Ivie</strong></td>
<td>Anesthetic Management of Pediatric Cardiac Transplant Complicated by Inadvertent Rupture of LVAD Cannula. <strong>Pamela Wendel</strong></td>
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<td>Smartphones in the Operating Room: Distraction or Diagnostic Aid?</td>
<td>Brandon Esenther</td>
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<td>A Case of Newly Diagnosed Wolff-Parkinson White in a Pediatric Patient</td>
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<td>Use of Draeger Apollo to deliver bilevel positive pressure ventilation</td>
<td>Susie So-Hyun</td>
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<td>Paravertebral Block for Breast Surgery in a Patient with Primary Lateral</td>
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<td>Prolonged Duration of Action of Succinylcholine in a Patient with Liver</td>
<td>Sarah Dillon</td>
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<td>Eisenmenger Syndrome: A Recent Success.</td>
<td>M. Meng</td>
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<td>Elective Orthopedic Surgery in Patients with Critical Aortic Stenosis:</td>
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<td>a Case Report and Review of the Controversy.</td>
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<td>Venous Air Embolus Upon Scalp Incision During Sitting Craniotomy.</td>
<td>Nicole Z. Spence</td>
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<td>“Otherwise Healthy…” An Ascending Aortic Aneurysm Diagnosed at Term.</td>
<td>Yefim Vilnits</td>
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<td>Intraoperative End-of-Life Decision-Making In a Patient with Severe</td>
<td>Ryan Ivie</td>
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<td>Mesenteric Ischemia.</td>
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<td>A customized perioperative care plan for a patient with type 1a</td>
<td>Risa Wolk</td>
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<td>glycogen storage disease undergoing elective surgery.</td>
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<td>Acute Normovolemic Hemodilution for a Jehovah’s Witness with</td>
<td>Namrata Khimani</td>
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<td>Polyhydranmios Presenting for Urgent Cesarean Delivery.</td>
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<td>Accidental Subcutaneous Injection of Rocuronium and the Potential</td>
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<td>When Shunts Attack: Severe Arterial-Venous Shunting on CPB during a</td>
<td>William Jackson</td>
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<td>Pulmonary Thromboendarterectomy.</td>
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17th Annual Academic Evening

WEDNESDAY, MAY 28TH, 2014
Heart Hospital Conference Center, 1st Floor, Riverview Terrace

PROGRAM
4:30 PM Poster Exhibit
6:15 PM Oral Presentations
7:15 PM Commentary and Awards

GUEST DISCUSSANT
Jeanine Wiener-Kronish, MD
Anesthetist-in-Chief
Department of Anesthesiology, Critical Care and Pain Medicine
Massachusetts General Hospital
Henry Isaiah Dorr Professor of Research and Teaching of Anesthetics
Harvard Medical School

MODERATOR
Robert N. Sladen, MBChB, FCCM

CHAIR, PROGRAM SELECTION COMMITTEE
Charles W. Emala, MD
ABSTRACT SELECTION COMMITTEE

Mitchell F. Berman, MD
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Guohua Li, MD, DrPH
Jose Moron-Concepcion, PhD
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Joachim Scholz, MD
Richard M. Smiley, MD, PhD
Lena S. Y. Sun, MD
Robert A. Whittington, MD
Charles W. Emala, MD

ACKNOWLEDGMENTS

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## PREVIOUS ACADEMIC EVENINGS

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<th>Year</th>
<th>Guest Judge</th>
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| 2013 | Kevin Tremper, MD  
(University of Michigan) | Jennifer Danielsson, MD  
John G. Gaudet, MD |
| 2012 | Keith Anthony Jones, MD  
(University of Alabama) | C. David Mintz, MD, PhD  
Hani Malone, MD |
| 2011 | Philip Lumb, MBBS, FCCM  
(Keck School of Medicine, USC) | C. David Mintz, MD, PhD  
Christopher Webb, MD |
| 2010 | Neal Cohen, MD, MPH, MS,  
(UCSF) | Sang Won Park, PhD  
Steven Yap, MD |
| 2009 | Ronald G. Pearl, MD, PhD  
(Stanford University) | Sang Won Park, PhD  
Carmen Guerra, MPH |
| 2008 | Jonathan Moss, MD  
(The University of Chicago) | Jennifer Evans  
Frederick T. Billings, MD |
| 2007 | Mark F. Newman, MD  
(Duke University Medical Center) | Hannah Wunsch, MD  
Minjae Kim, MD |
| 2006 | Douglas Coursin, MD  
(University of Wisconsin) | George Gallos, MD  
Hannah Wunsch, MD |
| 2005 | Mark Warner, MD  
(Mayo Clinic, Rochester, MN) | George Gallos, M |
| 2004 | Patricia A. Kapur, MD  
(UCLA School of Medicine) | Edmund Jooste, MD |
| 2003 | Peter Glass, MD  
(SUNY at Stony Brook) | Jason Scott, MD |
| 2002 | David Longnecker, MD  
(University of Pennsylvania) | Edmund Jooste, MD |
| 2001 | Simon Gelman, MD  
(Brigham & Women’s Hospital) | Yejun Zhao, MD |
| 2000 | John Kampine, MD  
(Medical College of Wisconsin) | H.T. Lee, MD, PhD |
| 1999 | Warren Zapol, MD  
(Massachusetts General Hospital) | H.T. Lee, MD, PhD |
| 1998 | Paul Barash, MD  
(Yale University) | H.T. Lee, MD, PhD |
**Oral Presentation Finalists**


3. Cumulative Incidence and Time to Reintubation in United States Intensive Care Units. Andrea N. Miltiades, M.D., May S. Hua, M.D., Hayley B. Gershengorn, M.D., Andrew A. Kramer, PhD, Guohua Li, DrPH, MD, Hannah Wunsch, M.D., M.Sc.

4. The utility of hemodynamic transesophageal echocardiography in clinical decision making in the CTICU. Arun Jayaraman, Maung Hlaing, Brigid Flynn, Robert Sladen.


**Poster Presentation Finalists**


8. Alteration in Gabra4 expression during alcohol withdrawal is mediated by specific microRNAs in the mouse thalamus. R.A. Bekdash; M.S. Salling; N.L. Harrison

9. Urinary neutrophil gelatinase-associated lipocalin (NGAL) is a marker of acute kidney injury in patients undergoing general surgery. Valerie Au, B.S*. and Gebhard Wagener M.D†

10. Postoperative glucose levels and outcome after liver transplantation. Melissa M Grant, BS and Gebhard Wagener, MD


**Poster Presentations**

**Laboratory Research**


13. Acetaldehyde, not Ethanol, impairs myelin formation and viability in primary mouse Oligodendrocytes. David J.C. Coutts and Neil L. Harrison

14. Dexmedetomidine's inhibitory effects on acetylcholine release from cholinergic nerves in guinea pig trachea. Maya Mikami, Yi Zhang, Charles W Emala.

15. Reduction of Ih in prefrontal pyramidal neurons following adolescent alcohol consumption. Salling, MC, Avegno EA, Harrison NL

17. **Analgesic Treatment with Pregabalin Does Not Prevent Persistent Pain After Peripheral Nerve Injury in the Rat.** John Whang (1) and Fang Yang (1), William T. Derry (2,3), Daniel Vardeh (2,4), Joachim Scholz (1)

18. **Genetic Deletion of the GABA<sub>α4</sub> Subunit Leads to Increased Airway Resistance and Inflammation.** Gene T. Yocum MD, Damian L. Turner PhD, Jennifer Danielsson MD, Matthew B. Barajas BS, Gregg E. Homanics PhD, Charles W. Emala MD MS.

19. **Lymphangiomymomatosis - a disease of mesenchymal progenitor cells.** Anguiano, V. Shiomi, T, Chada, K. and D’Armiento, J.

**Clinical Research**

20. **General Anesthesia and Endotracheal Intubation Experience from an Academic Labor & Delivery Service.** Adam Sachs, MD, Richard M. Smiley, MD, PhD.


22. **Association between Travel Time and Rehospitalization at a Different versus the Same Hospital for Survivors of Critical Illness.** Andrea Miltiades, MD, Hannah Wunsch, MD, MSc, May Hua, MD.

23. **Improving Data Acquisition for ICU Bed Flow Management.** Dimitris Giannaris, MD, Michele Lereh, FACHE, Robert N. Sladen, MBChB, FCCM.

24. **Relationship between height and outcomes among critically ill adults.** Emily Vail, MD, David Harrison, PhD and Hannah Wunsch, MD, MSc.

25. **The myth of the untested catheter - epidural vs. combined spinal epidural (CSE).** Jaime Aaronson, MD, Adam Sachs, MD, Antonio Gonzalez, MD, Richard M. Smiley, MD, PhD.

26. **Neutrophil-Lymphocyte Ratio as a Predictor of Cognitive Dysfunction in Carotid Endarterectomy Patients.** Kaitlin A. Mallon, BA; Hadi J. Halazun, MD; Joanna L. Mergeche, BA; E. Sander Connolly, MD; Eric J. Heyer, MD, PhD.


28. **Prophylactic ondansetron for the prevention of intrathecal fentanyl- or sufentanil-mediated pruritus: a meta-analysis.** Meghan Prin MD, Vivek Moitra MD, Jean Guglielminotti MD PhD, Guohua Li MD DrPh.

29. **Radial pulse pressure does not decrease compared to femoral pulse pressure with caval cross clamping and vasopressor use during liver transplantation.** Nina T Yoh MS, Keerthana Natarajean Engineer, Ramakrishna Mukkanama PhD, Gebhard Wagener, MD.

30. **Trends in Shared Decision Making: Implications for Chronic Pain Patients.** Sascha Qian, MD, Nomita Sonty, PhD.

31. **Desperate times call for desperate measures: designing controlled trials for new therapies in sepsis.** Meghan Prin MD, Gebhard Wagener MD.

**Case Reports**

**Monitor A**

32. **Elective Extracorporeal membrane oxygenation in a laboring parturient with Eisenmenger’s Syndrome.** Adam Sachs, MD, Richard M. Smiley, MD, PhD.

33. **Severe bradycardia during laryngoscopy in a 5 year old girl with hypertrophic cardiomyopathy and cardiofacio-cutaneous syndrome.** Albert Lin, Anjalee Dave, Tatiana Kubacki.
34. Ruptured Ectopic Pregnancy in a patient with DiGeorge Syndrome and Tetralogy of Fallot. Andrea Miltiades, MD, Sarah Smith, MD, Minjae Kim, MD
35. The Perils of Polymyxin Therapy: Polymyxin Induced Polyuria and Neuromuscular Blockade. Babar Fiza, MD, Vivek Moitra, MD.
36. Altered Response to Opioids in Patient on Induction Antiretrovirals. Brandon Rock Esenther, MD, Steven Miller, MD.
37. Kyphoplasty for a Vertebral Compression Fracture in Patient with Solid Organ Transplant. Cameron Marshall, MD, David Bandola, MD.
38. Cesarean delivery in a patient on extracorporeal membrane oxygenation for acute respiratory distress syndrome. Jaime Aaronson, MD, Richard M. Smiley, MD, PhD.

**MONITOR B**

39. Leukemoid Reaction after acute hemorrhage. David Kiamanesh, MD, Hannah Wunsch, MD, Vivek Moitra, MD.
40. Recurrent Central Sensitization, Potential for Development of Chronic Pain and Importance of Preventive Analgesia. Febin Melepura, MD, Anis Dizdarevic, MD.
41. Intraoperative Diagnosis and Management of Transfusion-Related Acute Lung Injury (TRALI): A Case Report. Lisa Lynch MD, Neeta Saraiya MD, Robert Kazim MD
43. A Case of Episodic Hemodynamic Instability in a Patient with a History of Graves’ Disease. Obinna Orji MD, Nicole Robinson-Taylor MD, Parwane Pagano MD
44. Perioperative Extrapyramidal Reaction to Ondansentron. Zafeer Baber, M.D., Sansan Lo, M.D.
45. ARDS: What to do when you do not have ECMO? Gurwinder Gill, MD, Gebhard Wagener, MD

**MONITOR C**

46. Rare Leiomyosarcoma of the Right Internal Iliac Vein Metastatic to the Right Heart. Angela C. Lee, MD, Sansan Lo, MD.
47. A Unique Approach to the Surgical Management of Aortic Insufficiency in Patients With a Heartmate II LVAD: A Case Report. Vibhuti Kowluru MD and Jeremy S. Poppers MD PhD
48. Monitored anesthesia care for subclavian venous-arterial extracorporeal membrane oxygenation (VA ECMO) cannulation. Jason Fu, MD, Bessie Kachulis, MD
49. A Multidisciplinary Approach to a LVAD-Arrest Algorithm: A Case Report and an Institution’s Response. E Grawe, MD, P Colombo, MD, M Yuzefpolskaya, MD, H Takayama, MD, PhD, N Uriel, MD, K Mody, MD, N Hoi-Yun Yip, MD, M Flanery, FNP, M Lurch, RN, S. Goswami, MD, MPH.
50. Coronary Obstruction and Cardiogenic Shock Requiring PCI and VA ECMO following Deployment of a Transcatheter Aortic Valve. Erin Grawe, MD, Taylor Johnston, MD, and Bessie Kachulis, MD. Columbia University/New York Presbyterian Hospital, Department of Anesthesiology.
51. VV-ECMO cannulation of an Avalon bicaval dual lumen catheter for a patient with severe status asthmaticus. Melissa Lee, MD, Susan Lei, MD.
52. Echo To the Rescue: Indispensable TEE in ICU Care. Jennifer McDonald, MD, Gebhard Wagener, MD.
53. **Addition of Short-Acting Distal Popliteal Sciatic Block to Long-Acting Mid-Thigh Sciatic Block Provides Fast Onset and Prolonged Duration.** Armand Wilhelm, MD, Robert Maniker, MD.

54. **Mitochondrial Myopathy, Encephalopathy, Lactic acidosis and Stroke-Like Episodes (MELAS) Syndrome Undergoing Intertrochanteric ORIF.** Asif Neil Mohammed MD, San San Lo MD

55. **MRI negative acute paraplegia after spinal cord stimulator placement under monitored anesthesia care.** Jacob Schaff, MD, Christopher Winfree, MD, John G Gaudet, MD.

56. **“Should We Give Intralipid?” – A Case of Possible Local Anesthetic Toxicity.** Lauren Parnell-Cassidy, MD, Danielle Ludwin, MD.

57. **Prolonged Continuous Spinal Anesthesia for Post-Operative Pain Management in a Chronic Pain Patient.** Lisa Kilcoyne, MD., Anis Dizdarevic MD., Robert Maniker, MD., Connie Chung, MD.


59. **Successful Spinal Anesthesia in an Adult Patient with Juvenile Rheumatoid Arthritis, Short Stature, and Low Body Mass.** Vibhuti Kowluru, MD, Robert Maniker, MD.
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<td>5:30 PM</td>
<td>Polyuria and Neuromuscular Blockade.</td>
<td>Babar Fiza, MD.</td>
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<td>response in post-Alemtuzumab immunosuppression induction: A tale of</td>
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<td>two kidney transplant recipients.</td>
<td>Namrata Khimani MD, Victor Lan MD.</td>
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<td>Algorithm: A Case Report and an Institution’s Response.</td>
<td>Erin Grawe, MD.</td>
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<td>Local Anesthetic Toxicity.</td>
<td>Lauren Parnell-Cassidy, MD.</td>
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<td>43. A Case of Episodic Hemodynamic Instability in a Patient with a</td>
<td>Obinna Orji MD, Nicole Robinson-Taylor MD.</td>
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<td>History of Graves’ Disease.</td>
<td>Erin Grawe, MD.</td>
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<td>ECMO following Deployment of a Transcatheter Aortic Valve.</td>
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<td>57. Prolonged Continuous Spinal Anesthesia for Post-Operative Pain</td>
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<td>Management in a Chronic Pain Patient.</td>
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<td>37. Kyphoplasty for a Vertebral Compression Fracture in Patient with</td>
<td>Cameron Marshall, MD.</td>
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<td>Solid Organ Transplant.</td>
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<td>44. Perioperative Extrapyramidal Reaction to Ondansentron.</td>
<td>Zafeer Baber, M.D.</td>
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<td>51. VV-ECMO cannulation of an Avalon bicaval dual lumen catheter for</td>
<td>Melissa Lee, MD.</td>
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<td>a patient with severe status asthmaticus.</td>
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<td>58. Interscalene Block and Permanent Phrenic Nerve Paresis: Is It</td>
<td>Tanzina Khan, MD, MPH.</td>
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<td>Preventable?</td>
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<td>38. Cesarean delivery in a patient on extracorporeal membrane</td>
<td>Jaime Aaronson, MD.</td>
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<td>oxygenation for acute respiratory distress syndrome.</td>
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<td>45. ARDS: What to do when you do not have ECMO?</td>
<td>Gurwinder Gill, MD.</td>
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<td>52. Echo To the Rescue: Indispensable TEE in ICU Care.</td>
<td>Jennifer McDonald, MD.</td>
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<td>59. Successful Spinal Anesthesia in an Adult Patient with Juvenile</td>
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<td>Rheumatoid Arthritis, Short Stature, and Low Body Mass.</td>
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ORAL PRESENTATION FINALISTS


3. Rotational thromboelastometry (ROTEM) predicts thromboembolic complications after major surgery. Alexander Hincker BA, Justin Feit, Robert N. Sladen MD and Gebhard Wagener MD.

4. Pressure Management during Carotid Endarterectomy & Early Cognitive Dysfunction. John G. Van Driest, MD; Joanna L. Mergeche, BA; Zirka H. Anastasian, MD; Minjae Kim, MD; E. Sander Connolly, MD; Eric J. Heyer, MD, PhD.

5. Concomitant use of inhaled nitric oxide and high flow nasal cannula to facilitate extubation in a cardiac surgery patient with severe right ventricular failure. Cosmin Gauran, Sumeet Goswami.

POSTER PRESENTATION FINALISTS


9. Active Constituents of Ginger Potentiate δ-Agonist-Induced Relaxation of Airway Smooth Muscle. E.A. Townsend, PhD, Y. Zhang MD, C. Xu, Ryo Wakita, PhD, DDS, C.W. Emala MS, MD.

11. Total bilirubin as a predictor of mortality after cardiac surgery. Meghan Kirksey MD, Gebhard Wagener, MD.

12. Effect of Donor Quality on Transfusion Requirements during Liver Transplantation. Teresa A. Mulaikal MD, Nanshi Sha BS, Gebhard Wagener MD.

POSTER PRESENTATIONS

13. Effects of the transient receptor potential (TRP) V1 antagonist, capsazepine, on airway smooth muscle function. Gene T. Yocum, M.D., Elizabeth A. Townsend, Ph.D., Yi Zhang, M.D., Charles W. Emala, M.D.


15. A novel strategy to treat human pre-term labor - targeting the TMEM16/anoctamin chloride channel in human pregnant uterus. Peter Yim MD, Wen Fu, PhD, Elizabeth Townsend PhD, Hiromi Funayama DDS, PhD, George Gallos, MD.


20. Strychnine-sensitive glycine receptors mediate tonic inhibition in layer II/III pyramidal neurons of the medial prefrontal cortex. Salling, MC, Harrison, NL.

CLINICAL RESEARCH

21. Reduced Middle Cerebral Artery Velocity during Cross-Clamp Predicts Cognitive Dysfunction after Carotid Endarterectomy. Joanna L. Mergeche, BA; Samuel S. Bruce, MA; E. Sander Connolly, MD; Eric J. Heyer, MD, PhD.

22. Atropine Dose and Bradycardia During Electroconvulsive Therapy. Nayema Khan B.S.; Eric J. Heyer M.D., Ph.D., Mitchell F. Berman M.D., M.P.H., Eugene Ornstein, M.D., Joshua A. Berman M.D., Ph.D. and Zirka H. Anastasian M.D.
23. Implementation of a Multidisciplinary Action Group in the Intensive Care Unit. Lance M. Retherford, MD; Robert N. Sladen, MBChB, FCCM.


25. The Double Envelope Overestimates the Aortic Valve Area in Severe Aortic Stenosis by Transesophageal Echocardiography. Elrond Teo, Rebecca Hahn, Jack Shanewise.


28. Relationship between early post-operative fever and risk of infection in critically ill patients. Tzevan Poon, MD; Hayley Gershengorn, MD; Hannah Wunsch, MD MSc.


30. Incidence of severe intraoperative desaturation and bradycardia in pediatric pulmonary hypertension patients. Lisa Eisler, M.D., Minjae Kim, M.D., Teeda Pinyavat, M.D., Jeffrey Gross, Mitchell F. Berman, M.D., Caleb Ing, M.D.


33. Predictors of Outcomes in Patients with Spinal Stenosis Who Received Epidural Steroid Injections; a Study Design. Brandon Sorensen, M.D. David Bandola, M.D.

34. Why Did It Take That Long? A Study of Factors Influencing Cesarean Delivery Times. Gonzalez, Antonio MD, Meng, Marie-Louis, MD, Kim, Minjae MD, Smiley, Richard MD, PhD.

35. Utility of Electronic Teaching Aids for Medical Student Education in the OR. Namrata Khimani MD, Allen Friedman MD, Saundra Curry MD.

CASE REPORTS

Monitor A

36. Resection of Paraganglioma in a Patient with Previous Mustard Atrial Switch Procedure. Alan Ho MD, Jeremy Poppers MD, PhD.

37. Paradoxical hemodynamic collapse after subxiphoid pericardial window. Benita Liao, MD MPH, Sansan S. Lo MD.
38. Domino liver transplantation using a liver with familial amyloid polyneuropathy. Mark Schlangel MD, MBA, Brigid Flynn MD.


40. Veno-Venous and Veno-Arterial Extracorporeal Membrane Oxygenation After Implantation of Total Artificial Heart and Massive Transfusion. Brian W. Nicholas MD, Jessica Spellman MD.


42. Coronary Artery Bypass Grafting in a Patient with Severe Hypothyroidism. Jacob E. Schaff MD, Maninder Singh MD.

43. An Overview of Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemoperfusion for the Anesthesiologist. Christopher Webb, MD, Richard Raker MD.

44. Succinylcholine-Induced Rhabdomyolysis in a Febrile Patient. Neha Patel MD, Vivek Moitra, MD.

Monitor B


46. A Parturient with a Possible Pheochromocytoma, Von Hippel-Lindau Disease and Preeclampsia. Marie-Louise Meng MD, Stephanie Goodman, MD.

47. Type II Von Willebrand Disease and Known Difficult Airway in a Twin Pregnancy. Ryan MJ Ivie MD, Stephanie Goodman, MD.

48. Thoracic Endometriosis – A Rare Cause of Pneumothorax in a Patient Requiring VATS. Ryan MJ Ivie MD, Sansan Lo, MD.


50. Left stellate ganglion block for the treatment of ischemic ventricular tachyarrhythmias in two patients requiring biventricular assist devices for cardiogenic shock after myocardial infarction. Emily A. Vail MD, Barry Fine MD, PhD, Staffan Wahlander MD, Michael Weinberger MD.


52. Impact of Subanesthetic Ketamine Infusion on Mood in a Critically Ill Patient. Daniela Darrah MD, Vivek Moitra MD.

Monitor C


55. An interesting case of intravenous lidocaine infusion in the management of chronic neuropathic pain related to idiopathic small fiber peripheral neuropathy. George Christolias MD, Leena Mathew MD.

56. Differential Diagnosis of Headache Following Epidural Steroid Injection: Pathophysiology, Diagnosis and Management. Kristoffer Padjen MD, PhD, Anis Dizdarevic MD.

57. Submental Intubation: An Alternative to Tracheostomy in Maxillofacial Trauma. Macdale Elwin MD, Parwane Pagano MD.


60. Perioperative Management of a Pediatric Patient with Shone’s Syndrome During Mitral Valve (MV) Replacement with a Melody Valve. Matthew Monteleone MD, William Schechter MD.

61. Tamponade in a Patient with a Total Artificial Heart. Elrond Teo MD, Jeremy Poppers MD.

62. Pulmonary Tension Associated with McConnell’s Sign. Elrond Teo MD, Steven Miller MD.

63. Intraoperative Diagnosis of SVC Syndrome After Heart Transplant. Daewha Benjamin Hong MD, Jonathan Hastie MD.

64. Complex Pulmonary Artery Reconstruction Requires Crash Bypass and VA ECMO. Robert Nampiaparampil MD, Taylor Johnston MD, Jeremy Poppers MD.

65. Resuscitation of a 46 Year Old Woman with HeartMate II LVAD: Two Resuscitations, Two Outcomes. Lance M. Retherford, MD, Steven Miller, MD, Robert N. Sladen, MBChB, FCCM

66. Use of Nasally-Inserted Disposable TEE Probe to Diagnose Unsuspected Right Ventricular Failure. Lance M. Retherford, MD, Staffan Wahlander, MD, Robert N. Sladen, MBChB, FCCM

67. Successful use of inhaled nitric oxide in management of critical pulmonary hypertension as observed in real time with a disposable ImaCor hTEE probe. Meghan Kirksey MD, PhD, Robert N. Sladen, MBChB, FCCM
68. Syncardia TAH delayed bleeding and possible tamponade. Cosmin Gauran MD, Gebhard Wagener MD

69. Heartware biventricular assist device as bridge to heart transplant. Issa Toure MD, Gebhard Wagener MD.
ORAL PRESENTATION FINALISTS

1. Anesthetic agents disrupt the growth cone response to guidance cues via a GABAA receptor mechanism. C.D. Mintz, K. Barrett, and N.L. Harrison.

2. Isoflurane post-conditioning induces 5'-ectonucleotidase (CD73) to protect against renal ischemia and reperfusion. A. Ham, M. Kim, J.Y. Kim, and H.T. Lee.


POSTER PRESENTATION FINALISTS


**POSTER PRESENTATIONS**

**LABORATORY RESEARCH**

12. Fetal alcohol alters the histone marks H3K4me3 and H3K9me2 along the proopiomelanocortin gene in the arcuate area of the hypothalamus. R. A. Bekdash, W.J. Belden, and D.K. Sarkar.


16. Glutamatergic transmission in the hippocampus and amygdala plays a critical role in the rewarding properties of morphine. G.S. Portugal, R. Hasani, M. Bruchas, and J.A. Morón Concepcion.


**CLINICAL RESEARCH**


20. NGAL as a marker of hepato-renal syndrome. A. Young, M. Minhas, and G. Wagener.

22. Preferences for autonomy and physician involvement in medical decision-making and correlation with level of patient distress in the chronic pain population. E. Rema, E. Garvin, and L. Mathew.

23. 2-Chloroprocaine is a safe and effective local anesthetic when used for spinal anesthesia. E. Garvin, A. Ho, and A. Dizdarevic.

**CASE REPORTS**


34. Fatal Left Ventricular and Aortic Thrombosis during Open Abdominal Aortic Debranching. L.M. Haselkorn and S. Miller


39. Real time intracardiac and intravenous pressure monitoring to discover the location of superior vena caval obstruction. E.Y. Teo and J. Rumley.

40. “Pulling the Plug?”: Elective Withdrawal of Total Artificial Heart. D. Chmielewski and C. Blinderman.
ORAL PRESENTATION FINALISTS

A1. Commonly used anesthetic agents interfere with axon guidance via a GABAergic mechanism. C.D. Mintz, MD, PhD, D.L. Benson, PhD, and N.L. Harrison, PhD


C1. Determination of Brain Death on Veno-Arterial Extracorporeal Membrane Oxygenation in Adults. Lloyd Meeks, MD, Gebhard Wagener, MD, Sumeet Goswami, MD.

POSTER PRESENTATION FINALISTS

A3. Isoflurane generates adenosine to protect against renal ischemia-reperfusion injury. Minjae Kim, MD, Mihwa Kim, BS, Sang Won Park, PhD and H. Thomas Lee, MD, PhD.

A4. Plasma membrane potential is critical in the calcium-independent regulation of airway smooth muscle responsiveness: a new rationale for therapeutically targeting membrane ion channels. Peter Yim, George Gallos, Matthew Siviski, Charles W Emala


B3. Classification of Perioperative Complications: An Outcome-Oriented Approach. Nanshi Sha, M.S. Guohua Li, M.D. Dr.P.H., and Joanne Brady, M.P.H.

B4. The Surgical Procedure Assessment (SPA) Score as a Predictor of Long Term Survival. Shreyajit Kumar, Hugh Playford, Robert N. Sladen, Gebhard Wagener.
B5. Early allograft dysfunction after liver transplantation. Brian Raffel, BS; Andrew Young BS, Jean C. Emond, MD, Gebhard Wagener, MD.

POSTER PRESENTATIONS
LABORATORY RESEARCH

A6. Viral transfection of AMPA glutamate receptor mutants within the hippocampus regulates the rewarding properties of morphine. G.S. Portugal, Y. Xia, R. Neve, S.J. Russo, J. Liu, and J.A. Morón Concepcion.

A7. Tumor necrosis factor-α alters sEPSP characteristics in nucleus accumbens medium spiny neurons. MW Nason Jr and NL Harrison.

A8. Alcohol induces Vamp2, but not Vamp1, gene expression in neurons via activation of heat shock factor 1 (HSF1). F.P. Varodayan; L. Pignataro; N.L. Harrison.


CLINICAL RESEARCH

B6. The MELD score after liver transplantation. Brian Raffel MD, Andrew Young, BS, Moury Minhaz BS, Jean Emond MD, Gebhard Wagener MD.

B7. Intra-operative Transfusion requirements of extended donor criteria allografts. Teresa A. Mulaikal MD; Jean C. Emond, MD; Gebhard Wagener MD.


B11. New York Statewide Planning and Research Cooperative System for Investigating Method of Anesthesia. Raymond S Park, M.D., Caleb Ing, M.D., Mitchell F Berman, M.D., M.P.H. and Lena S Sun, M.D.


B15. Frequency of Acute Changes found on Head CTs of General Medical and Surgical ICU Patients. Rebecca M. Bauer, MD, MPH; Guohua Li, MD, PhD; Hannah Wunsch, MD, MSc.
B16. 3-Dimensional Reconstruction of Musculoskeletal Tissue using Flouroscopy and Ultrasonography. Steven Yap MD, Leena Mathew, MD.

B17. Factors Associated with Prolonged Intubations in Multi-Level Spine Surgery. Laura C. Friedman, M.D., Zirka Anastasian, M.D., and Eric J. Heyer, M.D., Ph.D.


B19. Dispositional Traits Predict Problem Solving Ability in Chronic Pain Patients. Madeline Schwartz, PsyD, MSED, Emily Wald, BS, Nanshi Sha, MS & Nomita Sonty, PhD.


CASE REPORTS


C5. Two Case Studies of Countertransference in Palliative Care: Implications for Clinical Practice. Madeline Schwartz, PsyD, MSED, Craig Blinderman, MD, MA, Nomita Sonty, PhD, MP.


C8. Liver Transplantation for Hepatopulmonary Syndrome Secondary to Abernethy Malformation. Scott Lipson MD, Pediatric Anesthesiology Fellow, Leila Pang MD.

C9. Takotsubo Cardiomyopathy and Resultant Cardiogenic Shock after Mitral Valve Repair. Adam S. Evans, MD, MBA, Daniel B. Sims, MD, Nir Uriel, MD, Ulrich P. Jorde, MD, Joseph Rumley, MD, Craig R. Smith, MD.


Oral Presentation Finalists

1. Isoflurane reduces acute kidney injury induced liver and intestine dysfunction via intestinal sphingosine kinase activation. Minjae Kim, MD, Sang Won Park, PhD, Mihwa Kim, BS, Connie Chung, MD, H. Thomas Lee, MD, PhD.

2. Paneth cell activation after acute kidney injury causes liver and intestine injury and systemic inflammation in mice. SW Park, M Kim, KM Brown, VD D’Agati and HT Lee.


4. Interleukin-6 increases in humans undergoing laparoscopic nephrectomy. Steven Yap MD, Sang Won Park PhD, Jaime Landman MD and H. Thomas Lee MD, PhD.

Poster Presentation Finalists

5. Isoflurane attenuates inflammation induced by acute kidney injury in small intestine. Connie Chung, MD, Sang Won Park, PhD, and H. Thomas Lee, MD, PhD.

6. Acute kidney injury after liver transplantation – A review of 803 cases. Andrew Young, BA, Minhaz Moury, BS, HT Lee MD PhD, Gebhard Wagener, MD

7. Modeling the dynamic norm of intra-operative blood pressure using semiparametric quantile regression. Nanshi Sha, M.S., Eric J. Heyer, M.D., Ph.D., Mitchell Berman, M.D., Guohua Li, M.D. Dr.P.H.

8. Genetic Contribution to the Pain and Progress of Labor. Elena Reitman, MD, Pamela Flood, MD, Steven Shafer, MD

9. Alcohol and heat shock regulate synaptotagmin 1 (Syt1) expression in cortical neurons. F.P. Varodayan; L. Pignataro; N.L. Harrison.


Poster Presentations
11. Activation of endogenous GABA_A channels attenuates airway smooth muscle calcium-mediated oscillations in muscle force. Peter Yim, M.D., George Gallos, M.D., Yi Zhang, MD and Charles W. Emala, M.D.

12. Chloride cycle generates depolarization mediated smooth muscle contraction. Peter D Yim, M.D., George Gallos, M.D., Yi Zhang, M.D., and Charles W Emala, M.D.

13. Repeated morphine administration alters AMPA glutamate receptor trafficking in the mouse hippocampus. Yan Xia, Jie Liu, Nicole Bjorklund, Jose Morén-Concepcion.


15. Addressing childhood obesity: The diminishing requirement of hypothalamic leptin signaling in regulating energy homeostasis. Laurence E. Ring and Lori M. Zeltser


17. Urinary Neutrophil Gelatinase-associated Lipocalin (NGAL) urine creatinine ratios after liver transplantation. Stephen Yap MD, Moury Minhaz BS, Fallon Mattis MD, Mihwa Kim MS, HT Lee MD PhD, Gebhard Wagener MD.

18. Protein C activity after Liver Transplantation and Early Graft Dysfunction. Adriana Rodriguez MD, Geraldine Diaz, DO, Moury Minhaz BS, John Rentz MD, Robert N. Sladen, MD, Gebhard Wagener MD.

19. ICU Delirium and Antipsychotic Agents after Cardiac Surgery. Shahzad Shaefi, M.D., David Vawdrey, Ph.D, Adriana Rodriguez, Peter Shapiro, M.D. and Robert Sladen, M.D.


22. A Scoring System to Predict Unplanned Intubation in Patients Undergoing Major Surgical Procedures. May Hua, MD, Joanne Brady, SM, Margaret Wood, MD, Mahmoud El-Tamer, MD, Guohua Li, MD, DrPH


25. Epidemiology of Primary Pulmonary Hypertension in the Pediatric Population. T Pinyavat, MD; C Ing, MD; A Forde, MPH; J Brady, MS; and L Sun, MD.

27. **Co-morbidities in Pediatric Down Syndrome Patients.** A. Forde, J. Wisotsky, J. Brady, L. Sun, C. Ing.

28. **A retrospective review of urine toxicology results in outpatient pediatric pain management.** Miller-Saultz D, Afzal A, Chung W, Sullivan MA, Saroyan JM.

29. **Acceptance predicts physical self-efficacy in outpatients with chronic pain.** Traci Stein PhD, MPH, Nomita Sonty, PhD.


31. **Daily Distribution of Deliveries and Anesthesia Workload in Two Labor and Delivery (L&D) Suites at an Academic Medical Center.** Josue Rivera BS, Richard Smiley MD, PhD, Vanessa E. Hennig-Roshong, Shelby H. Davies, Pamela Flood MD.

32. **Propofol dosing in endoscopic retrogradecholedangiopancreatography.** Farooq A. Qureshi, MD, Mitchell F. Berman, MD, Vivek K. Moitra, MD.

33. **The Impact of a Seminar on Resident Knowledge of Evidence-Based Medicine.** May Hua, MD, Brian Egan, MD, MPH.


35. **Abstract Withdrawn**

36. **How professionalism is learned during residency.** Samantha Harvey, M.D. & Sandra Curry, M.D.
Abstracts

Oral Presentation Finalist

1. Selective hypothalamic leptin receptor knockout in a murine model leads to severe obesity and early diabetes. Ring, L, Zeltser, L

2. Sphinganine 1-phosphate ameliorates both acute liver failure and acute kidney injury induced by hepatic ischemia and reperfusion in mice. Park, S, Chen, S, Kim, M, D’Agati, V, Lee, HT


Poster Presentation Finalists

5. Radiation exposure of the eye lens of the anesthesiologist compared to the neuroradiologist. Anastasian Z, Strozyk D, Gaudet J, Meyers P, Berman M


9. Infusion pump alarm limits created using historical data from an anesthesia EMR. Qureshi F, Kheterpal S, Berman M


Poster Presentation

11. GABA transporters are expressed in human airway smooth muscle and epithelial cells. Zaidi S, Xu D, Emala C

12. Extended donor criteria liver transplants are at increased risk for postoperative acute kidney injury. Yap S, Minhas M, Mattis F, Lee HT, Wagener G


15. Techniques for difficult peripheral venous access. Freudzon L, Gay C, Eagan B


18. The relationship between hypervigilance, distress, & optimism with chronic pain acceptance and disability. Tsui P, Sonty N


25. Impact of the Kimberly Clark rewarming system on temperature perturbations following cardiac surgery with cardiopulmonary bypass. Ju A, Rodríguez A, Arunajadai S, Playford H, Sladen R

26. High frequency oscillatory ventilation (HFOV) for respiratory acidosis in adult late-stage ARDS. Brand J, Yang D, Romano M, Wahlander S


30. Epidemiology of pediatric postoperative reported adverse events in anesthesia recovery areas. Kakavouli A, Carson M, Lin C, Silverstein E, Ohkawa S, Sun L


34. Anesthesia for adjustable gastric banding (LABG) in 48 pediatric patients. Lopes M, Kubacki T, Zitsman J, Sun L.

35. Effect of self-reported ethnicity on the pain and progress during the first stage of nulliparous labor. Debtee, J, Connell-Price J, Evans-Smith J, Shafer S, Flood P.


37. Patient safety module questions. Gay C, Jones D
Abstracts
Basic Science


3. The Role of Kv1.3 Potassium Channels in Lymphocyte Apoptosis. Mikami M, Kaku R, Kawakami, Yang J


5. The Pacemaker HCN1 Channel is not Post-Translationally Modified by SUMOylation. Kaku R, Mikami M, Kawakami T, Tibbs G, Yang J


7. Mechanical Basis of Selective Inhibition of HCN1 Pacemaker Ion Channels by Propofol: Insights into Anesthetic Mechanisms and Novel Therapeutic Agents. Redd KJ, Lyaschenko AK, Yang J, Tibbs G


9. GABA<sub>A</sub> Agonist Relaxes Constricted Airways in Guinea Pigs In-Vivo Independent of Neural Contribution. Gleason NR, Zhang Y, Emala CW

Clinical Science


15. Effects of Race on Reported Pain in Labor. Debiec JM, Connel-Price J, Evans J, Flood P


20. EEG Coherence Patterns during Isoflurane and Sevoflurane Anesthesia in Infants and Young Children. Lo SS, Grieve PG, Carson M, Sobol J, Emerson RG, Stark RI, Sun L


22. Anesthetic Considerations of Transcatheter Aortic Valve Implementation. Billings FT, Shanewise JS


Miscellaneous

29. Conversion from peripheral Nerve Stimulator to Ultrasound-Guided Regional Anesthesia. Clark M, Brown A

30. Identification and Treatment of Neuropathic Pain on Injured Adolescent. Reitman E, Saroyan J

31. The Clinical Uses of Dantrolene Appear to be Broader than We Think. Wei E, Sheth S, Jordan D

32. Diuretic Therapy for Pseudotumor Cerebri: Treating Head Pain by Ruining the Patient. Sheth S, Saroyan J

Abstracts

LABORATORY INVESTIGATIONS

1. Pre-exposure to vasopressin potentiates the vasoconstrictive effect of epinephrine in late anaphylaxis. Dewachter P, Emala, C.W


5. The anti-apoptotic effect of B-adrenoreceptor blockers is mediated by both mitochondrial stabilization and a direct inhibition of caspase 9. Mikami M, Goubaeva, F., Yang, J


8. Activation of endogenous GABAA channels on airway smooth muscle potentiates isoproterenol mediated relaxation. Gaffos G. Zhang, Y. Emala, C.W


10. GABAA receptors inhibit increases in intracellular calcium in human airway smooth muscle cells. Mizuta K. Yang, J, Zhang, Y., Emala, C.W

11. Sub-millisecond, camp-sensitive current rectification in "slow" HCN pacemaker channels: a novel mechanism for shaping neuronal excitability. Lyashchenko AK Tibbs, G.R.

CLINICAL INVESTIGATIONS


15. Nicotine patch for postoperative pain. Hong B.D. Flood, P.


17. Management of life-threatening respiratory failure in the ICU. Gaffnev A Wahlander. S.


CASE REPORTS


22. Sunblock in the ICU. Ivascu N., Moitra,V


25. Methylene blue and vasodilatory shock. Flynn B. Sladen, R.N.

26. The loss of swallowing ability and gag reflex following the administration of intrathecal fentanyl. Moore R. Smiley, R.

27. Assessment of perioperative anesthetic risks and management of parental expectations in Duchenne's muscular dystrophy. Rastogi M Wu,O., Hrdlicka. V., Saraiya, N., Fitz-James, J.

28. Respiratory failure requiring extracorporeal membrane oxygenation in a 54 year-old man after discharge from coronary artery grafting. Doane M. Moitra, V.
29. Laparoscopic emergency appendectomy in a patient with trisomy 21, a fused cervical spine and Eisenmenger's syndrome. *Seitz J, Fitz-James, J*
Abstracts

1. Postoperative dexmedetomidine does not reduce the incidence of post-thoractomy neuralgia. Atchabahian A, Miller CC, Wahlander S

2. Delayed complete airway obstruction following the application of topical anesthesia to a pediatric patient – a loss of upper airway tone. Bilenker M, Jooste, EH

3. Experiential and Motivational factors influencing the choice of anesthesiology as a career. Caravajal L, Graham M, Curry S


7. Management of renal transplantation in pediatric patients with cardiac dysfunction. Ezrokhi M, Fitz-James, I

8. The case for peripheral nerve blocks in anticoagulated patients. Fanning RM, Patel P, Brown AR

9. Neurotransmitter and pharmacological control of pacemaker channel activation exerted by acidic lipids downstream of diacylglycerol kinase and phospholipase A2. Fogle KJ, Rozario AO, Lyashenko AK, Turbendian HK, Chaplan SR, Tibbs GR


11. Beta-adrenergic receptor blockers inhibit neuronal apoptosis by interfering with both the intrinsic and the extrinsic apoptotic pathways. Goubaeva F, Yang J


15. The architecture of the selectivity filter of open HCN pacemaker channels is not coupled to the camp-sensing apparatus. Lyashenko AK, Fogle KJ, Dhilia A, Tibbs GR

16. The intravenous anesthetic propofol acts in a direct, membrane-delimited manner to inhibit HCN1 pacemaker channels. Lyashenko, AK, Yang J, Tibbs GR


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