

A MESSAGE FROM THE CHAIR



Dr. Warren Sandberg welcomes the audience to the annual meeting of the Association of University Anesthesiologists

It's spring - a time of renewal, and a time when I always take stock of the prior year's accomplishments and look ahead to the work of the coming year. In doing so, I am reminded of how dynamic academic anesthesia is. Each year in a career is different from the one before - sometimes a little, sometimes a lot.

In the department, we bid farewell to our own graduates as they seize new opportunities, and we anticipate the arrival of new faculty, new CRNAs and a new crop of residents. We celebrate the transition of another generation of mentees becoming mentors.

Some of the additional positive changes we have experienced this year include:

- Four additional operating rooms
- Two new members elected to the Association of University Anesthesiologists (AUA)
- An increase in published papers
- An increase in residency matches from 15 to 18
- Approval of new fellowship slots in Obstetric Anesthesiology and in Criti-

cal Care Medicine

- Approval of a new Neuro Critical Care fellowship
- Expansion of our physician basic science portfolio, via internal development and arrival of new faculty
- The addition of substantial new, non-traditional grant funding to our portfolio through the ImPACT Africa grant and its supplement from the

Clinton Global Health Initiative

- Doubling the size of the GI laboratory
- Cardiothoracic Anesthesiology now covering every case on CCT5, extending our reach to entirely new classes of patients and procedures
- Ambulatory Anesthesiology expanding and converting Medical Center East into a high throughput low acuity surgery center

Momentously, but quietly, we launched three initiatives that change the game in hospital anesthesia and position the department as a lead-

ing contributor to improving the function of our health system.

(1) We put in motion the bedside monitoring initiative, wherein every surgical patient will have at least a pulse oximeter with an escalating alert system while hospitalized.

(2) We are leading the Standard Inpatient Operating Model, dedicated to knocking down barriers to smooth

hospital patient flow by solving persistent problems at the system level and creating

reliable standard work. (3) And last, we reinvigorated the Center for Evidence-based Anesthesia (CEBA) and created the Anesthesia Perioperative Consult Service, which, together, have reduced length of stay by up to two days in every patient population they have addressed.

This has been another transformational year, and I thank each of you for your hard work and dedication. Your contributions are what make *us* such a successful department. With the upcoming activities on the horizon, I anticipate an equally exciting year ahead.

“...we launched three initiatives that change the game in hospital anesthesia and position the department as a leading contributor to improving the function of our health system.”

Press Coverage

[Click to view](#)

Jesse M. Ehrenfeld, M.D. is honored by the Massachusetts Medical Society

Sepsis, a wily killer, stymies doctors' efforts to tame it

Vanderbilt doctors' cooperation heals patients faster

Rice assumes helm in Multispecialty Adult Anesthesiology

Visit the newsfeed on the homepage of website to view additional news

In this issue

- 2 | VIA Fundraiser Dinner
- 4 | Spotlight-Faculty/Staff
- 6 | Staff Luncheon
- 7 | AUA Annual Meeting
- 8 | Research Symposium

Vanderbilt International Anesthesia Fundraiser

Photos by Dr. Michael Pilla

The Vanderbilt International Anesthesia Fundraiser took place Friday, April 17 from 6:00 - 9:00 pm at The Green Door Gourmet Grand Barn. More than 170 were in attendance for the lively event, which raised more than \$30,500.

The night kicked off with a cocktail hour and hors d'oeuvres, followed by a buffet dinner catered by The Clean Plate Club. Guests enjoyed Southern favs such as smoked pork loin, sweet tea-brined chicken and five cheese mac & cheese.

Highlights of the evening included bidding on one of three cheesecakes made by Dr. Clifford Bowens and giving Dr. Alex Green a haircut of choice. There were silent and live auctions with selections such as vacation destinations and a collection of fine wines from "The Sandberg Cellar."

The emcee for the evening was Dr. McEvoy and keynote speaker was Dr. Mark Newton. Dr. Erik Hansen skyped from Kijabe as part of the presentation.



Dr. Matt McEvoy, emcee for the evening

"The annual fundraiser dinner was an opportunity to celebrate the success of the program with residents, faculty, families and the larger Nashville community."



Dr. Mark Newton, keynote speaker



Every two minutes a mother dies giving birth in sub-saharain Africa.





Dr. Elisabeth Sandberg



Dr. David Byrne, Dr. Kara Siegrist and Dr. Greg Carpenter



Dr. Joel Musee and son



Dr. Mark Newton



Cindy Cannon



Dr. Ban Sileshi bidding at the silent auction



Dr. Reid Phelps and daughter



Dr. Jesse Ehrenfield



Drs. Tucker and Jessica Mudrick



Dr. Alex Greene just before his headshaving



Dr. Daltry Dott



Dr. and Mrs. Michael Higgins

SPOTLIGHT

Department of Anesthesiology

Welcome to New Faculty and Staff



Justin Berube
Accounting Assistant IV
Administration

BS, 2004,
Business Management,
Westfield State College
Westfield, MA

PREVIOUS POSITION:
Accounting/Finance
Assistant,
Clinical Solutions Pharmacy,
Nashville, TN

Fun Fact: Sings a great
karaoke version of "I Will
Survive"



Travis Jason Hamilton, DO
Assistant Professor
*Division of Multispecialty
Adult Anesthesiology*

Residency, Anesthesiology,
2011, Brooke Army Medical
Center, San Antonio, TX, and
Transitional Internship, 2008,
William Beaumont Army Medi-
cal Center, El Paso, TX

DO, 2007, Pikeville College
School of Osteopathic Medi-
cine, Pikeville, KY

BS, 2001, Biology, Austin
Peay State University,
Clarksville, TN

PREVIOUS POSITIONS:
Staff Anesthesiologist, Dwight
D. Eisenhower Army Medical
Center (DDEAMC), Fort
Gordon, GA, 2011-2015;
Major, Medical Corps, United
States Army, Fort Gordon, GA,
2011-2015; Staff Anesthesi-
ologist, Doctors Hospital of
Augusta/Joseph M. Still Burn
Center, Anesthesia Consultants
of Augusta, Augusta, GA,
2013-2015

Fun Fact: Spent eight years on
active duty as an anesthesi-
ologist with the United States
Army

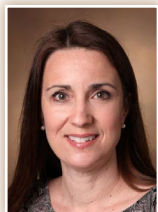


Robin Hipes
Administrative Assistant II
Division of Research/VAPIR

AAS, 1998, Paralegal Studies,
Northern Virginia Community
College, Fairfax, VA,

PREVIOUS POSITION:
Administrative Assistant II,
Human Research Protection
Program, Vanderbilt Universi-
ty Nashville, TN

Fun Fact: Pursuing degree
AAS, 2015, Office Manage-
ment Technology, Volunteer
State Community College,
Gallatin, TN



Nancy Morton, MSN, FNP-C
Nurse Practitioner
Division of Pain Medicine

MSN, 2014, Family Nurse
Practitioner, Austin Peay State
University, Clarksville, TN

BSN, 1993, Rhode Island
College, Providence, RI

PREVIOUS POSITIONS:
Nurse Practitioner, Fast
Pace Clinic, McMinnville,
TN & Fairview, TN, 2014-
2015; Resource RN on Med/
Surg, Women's, Cardiac and
Transplant Stepdown Units,
Vanderbilt University Medical
Center, Nashville, TN, 1995-
2015; Clinic RN, Cancer Clinic,
Medical Specialties, Neurology,
Vanderbilt Psychiatric Hospital,
Nashville, TN, 1995-2015

Fun Fact: Is a New Englander,
second generation Portuguese



Kelly Smith, RN, MS-CRNA,
MSN-FNP, APRN-BC
Certified Registered Nurse
Anesthetist
*Division of Multispecialty
Adult Anesthesiology*

MSN, 2008, Nurse Anesthesia,
Middle Tennessee School of
Anesthesia, Madison, TN

MSN, 2004, Family Nurse
Practitioner, Vanderbilt Univer-
sity, Nashville, TN

BSN, 1995, Belmont University,
Nashville, TN

PREVIOUS POSITION:
Certified Registered Nurse
Anesthetist, Anesthesia Medical
Group, Baptist Hospital,
Nashville, TN

Fun Fact: Loves to garden



Rebecca Stadler
Administrative Assistant II
Division of Pain Medicine

PREVIOUS POSITION:
Administrative Assistant,
University Physicians Inc.,
Aurora, CO

Fun Fact: Enjoys running and
hopes to run her first half
marathon this fall

2015-2016 Resident Advisory Council



Joel Musee, MD, PhD
Co-Chair
Hometown: Nairobi,
Kenya
Education: Oberlin
College
Vanderbilt University
School of Medicine as
part of the MD/PhD
program and grad-
uated with a PhD in
biochemistry, as well
as a medical degree.



Sarah Hemauer, MD, PhD
Co-Chair
Hometown: Stockbridge, WI
Education: University of
Wisconsin-Madison
University of Texas
Medical Branch as part of
the MD/PhD program and
graduated with a PhD in
biochemistry and
molecular biology, as
well as a medical degree.

Chief Residents cont'd. page 12

Accomplishments

- Christopher Lewis Cropsey has been awarded an FAER Grant: Effects of an Electronic Decision Support Tool on Team Performance During In-situ Simulation of Perioperative Cardiac Arrest.

- Paul St. Jacques, MD, has been named President Elect for the AACD (Association of Anesthesia Clinical Directors) and is now recognized as a Certified Professional in Patient Safety (CPPS) by the Certification Board for Professionals in Patient Safety (CBPPS).

- Drs. Mark Newton and Kelly McQueen attended the launch of the Lancet Commission on Global Surgery in April. Dr. Newton participated as a distinguished guest, and Dr. McQueen served as an advisor to the commission and as a panelist. Dr. Tracey Jackson had an abstract accepted and presented a poster. Thereafter, Dr. Newton spoke at Oxford University, Great Ormond Street, and University College Teaching Hospital (main teaching hospital in London), and met with the GE Foundation.

- Kevin Currie, PhD, Brad Grueter, PhD, & Carrie Grueter PhD, were recognized by Dr. Mark Wallace for their teaching efforts within the Neuroscience Graduate Program.

- Jerod Denton, PhD, was invited to review for the NICHD (National Institute of Child Health & Human Development).

- Warren Sandberg, MD, PhD, Michael Pilla, MD, & Scott Watkins, MD, were recommended for membership in the Academy for Excellence in Teaching.

- Expansion of the Anesthesiology Critical Care Medicine and Obstetric Anesthesiology Fellowship Programs has been approved. Critical Care Medicine will expand to 10 fellows per year (from 8), and Obstetric Anesthesiology will expand to 2 fellows per year (from 1).

- Stephen Bruehl, PhD, and John Burns, PhD, had a new R01 funded with a start date of April 1st. Total costs that will be funneled through Vanderbilt are about \$2.6 million. Project Title: Reduced Opioid Analgesic Requirements Via Improved Endogenous Opioid Function.

- Kelly McQueen, MD, reported the launch of Essential Surgery, the first volume of *Disease Control Priorities, Third Edition (DCP3)*, on March 26 at the Consortium of Universities for Global Health (CUGH) conference in Boston, MA. Dr. McQueen co-authored a chapter on Anesthesia and Perioperative Care in the first volume. The full series comprises nine individual volumes that will be published in 2015-2016.

- Sujay Kharade, PhD, postdoctoral fellow in the Denton lab, organized an ASPET symposium at Experimental Biology 2015 entitled "Channelizing ion channel-based drug discovery: Advancements and Current Challenges."

- Michael H. Chi, MD, has been named the newest BH Robbins Scholar. Dr. Chi and his mentor, Dr. Craig Duvall, assistant professor of biomedical engineering, will research targeted drug delivery related to oxidation. The potential applications of this research are tremendous since oxidative stress has been implicated in ischemia reperfusion injury and organ dysfunction, development of persistent pain, and hyper-inflammation.

- Dr. Amy Robertson's proposal, "Using Interactive Video to Teach Clinical Procedures," will be funded by the Vanderbilt Institute of Digital Learning (VIDL).



Fred H. Bess, PhD, Jeff Balsler, MD, PhD, Edward Sherwood, MD, PhD, Wei Zheng, MD, PhD, MPH

Edward Sherwood, MD, PhD, was named the Cornelius Vanderbilt Chair in Anesthesiology. A celebration was held in January, honoring Dr. Sherwood and the other new holders of endowed chairs for their academic accomplishments.

- Kelsey A. Chinnadurai, MSN, FNP-C, has successfully defended her doctoral project entitled "Implementation of a sustainable Ventilator-Associated Pneumonia (VAP) prevention protocol in a Pediatric ICU in Managua, Nicaragua." Kelsey will graduate from Duke University with her Doctor of Nursing Practice (DNP) on May 8th, 2015.

- Dr. Rene Raphemot, who completed his Ph.D. dissertation research in Dr. Jerod Denton's laboratory, will be awarded at graduation the Vanderbilt Founder's Medal (first-in-class) in recognition of his outstanding research accomplishments during his graduate work.

Appointments/Elections

- Josh Billings, MD, was appointed to the scientific program committee for the Society of Cardiovascular Anesthesiology's annual meeting.

- Jason Lane, MD, was elected to the board of directors (director at Large) at the Association of Anesthesia Clinical Directors annual meeting in Las Vegas in March and was appointed chair of the Society of Non-Operating Room Interventionalists and Anesthesiologists (SONORIA) Collaboration committee. This committee is charged with the task of acting as a liaison to other societies and specialties (Radiology, Cardiology, Gastroenterology).

Competition

- Joseph Schlesinger, MD, and his team won the 2015 Biomedical Engineering Design Competition.

Presentations

- Josh Billings, MD, was invited to give Grand Rounds for the Division of Clinical Pharmacology on April 7th and gave a talk titled, "Oxidant Injury during Cardiac Surgery."

- Dr. Brian Rothman spoke on the challenges and opportunities of real-time clinical research decision support at the DIA EuroMeeting 2015 in Paris, France. The conference focused on the entire drug development process. As part of an effort to use analytics to shorten the time required to get a drug to market, Dr. Rothman demonstrated VigiVU and discussed how it could be leveraged in real-time decision support toward that goal, as well as the data challenges associated with implementing such a system.

- Dr. Jane Brock presented her poster, "Ambulatory 2015: Following outcomes to insure quality, safety and satisfaction in patients who are fatter and sicker," at the Society for Ambulatory Anesthesia (SAMBA). The percentage of high acuity patients in our Ambulatory Surgery Centers at Vanderbilt intrigued the audience.

Panel

- Jason Lane, MD, moderated a panel at the Association of Anesthesia Clinical Directors on Non-Operating Room Anesthesia: Challenges, Pitfalls, and Successes. Additional panelists included Dr. Norman Randolph of the University of Pennsylvania, and Dr. Mark Weiss, Vice-President of the Society of Non-Operating Room Interventionalists and Anesthesiologists.

Travel

- Camila Lyon, MD, went to Mozambique for two weeks with 450 diverse providers including students, residents, attendings, specialists, and technicians in general medicine, anesthesia, surgery, OB, and pediatrics. The goal is to increase surgical and anesthesia capacity and safety.

Congrats

- Dr. John Meyer married Jen Tooher on 4/25 in Roswell, Georgia.

All Staff Meeting and Luncheon

April 21



Hongjuan Blazer and Karen McCarthy



Travis Spain, Kristie Lee, Christine Goldsberry, Michele Salzman and Qunli Cheng



Nadine Krueger, Kim Alexander, Martha Tanner, Deborah Nelson-Rouse and Jennifer Cook



Damon Michaels, Steve Klintworth, Gail Mayo, Susan Taylor and Mark Stevens



Back row: Mark Stevens, Dawn Martin, Betsy DeMarcus
Front row: Rachel Herrmann and Judy Lashbrook



Jennifer and Carter Morse



Beverly Fletcher, Kristi Hasty and Callie Hanks



Frank Aline, Mary Chestnut and Michael Plante

Cardiothoracic Anesthesiology: *At a Glance*



Dr. Mias Pretorius, Danielle Brenston and Dr. Andrew Shaw conclude a successful fellowship interviewing session for 2016-2017



Dr. Mias Pretorius and Dr. Andrew Shaw in front of posters at Society of Cardiovascular Anesthesiologists (SCA)



Dr. Amanda Fox, UT Southwestern Vice Chair for Research with Dr. Andrew Shaw at SCA

The Association of University Anesthesiologists annual meeting took place April 23-25 at Lowes Vanderbilt Hotel. The event brought together approximately 300 university anesthesiologists and focused on developing new methods of teaching anesthesiology, engaging in an interchange of ideas, and presenting original investigations in the clinical and laboratory setting.



Dr. Matthew McEvoy, Dr. Yandong Jiang, Dr. Warren Sandberg, Dr. Jonathan Wanderer and Dr. Mark Rice



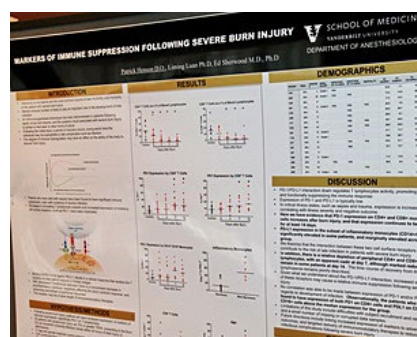
Dr. Annemarie Thompson, Dr. Brian Rothman, Dr. Jesse Ehrenfeld, Dr. Warren Sandberg and Dr. Lorri Lee



Dr. Jeff Balsler and Dr. Lee Fleisher



Dr. Arna Banerjee



Poster session



Dr. Steven Shafer, Dr. David Murray and Dr. Matthew McEvoy



Dr. Margaret Wood and Dr. Michael Kot



Dr. David Chestnut



Dr. Heidi Smith and Dr. Y.S. Prakash



Dr. Aman Mahajan, Dr. Michael Gropper, Dr. Liza Weavind and Dr. Pratik Pandharipande

About AUA

The Association of University Anesthesiologists is a medical society composed of anesthesiologists who serve an academic role in anesthesiology at a medical school or a teaching hospital. The mission of the AUA is the advancement of the art and science of anesthesiology by the encouragement of its members to pursue original investigations in the clinic and in the laboratory, the development of the method of teaching anesthesia, and the free and informal interchange of ideas. For more information on the AUA, visit the Association's website at auahq.org.

11th Annual

Anesthesiology Research Symposium

*Highlighting the current research of
clinical and translational investigators
and basic scientists*



Dr. Warren Sandberg, Dr. Judith Hellman and Dr. Ed Sherwood



Dr. Jerod Denton, Dr. Warren Sandberg, Dr. Judith Hellman and Dr. Pratik Pandharipande



Dr. Bantayehu Sileshi



**Christine Goldsberry,
Kristie Lee and Deborah
Nelson-Rouse**



Poster viewing session



Dr. Andrew Shaw and Dr. Sandberg (Charles Bernard Pittinger Prize, Health Services and Informatics Research)



Dr. Stephen Bruehl and Dr. Sandberg (Charles Bernard Pittinger Prize, Clinical Translational Research)



Dr. Eric Delpire and Dr. Sandberg (Charles Bernard Pittinger Prize, Basic Science Research)



Dr. Heidi Smith and Dr. Adam Kingeter (tie for Best Oral Presentation)



Dr. Josh Billings and Dr. Sandberg (Bradley Smith Mentorship Award)



Patricia Hendricks, RN, and Dr. Sandberg (Roger England Research Award for Excellence in Support of Basic and Clinical Science)



Dr. Sandberg and Dr. Julia Bohannon (Best Poster Presentation)



Dr. Pratik Pandharipande and Kristie Lee tally scores

Recent Publications

- Bartos JA, Matsuura TR, Sarraf M, Youngquist ST, McKnite SH, Rees JN, Sloper DT, Bates FS, Segal N, Debaty G, Lurie KG, Neumar RW, Metzger JM, **Riess ML**, Yannopoulos D. Bundled postconditioning therapies improve hemodynamics and neurologic recovery after 17min of untreated cardiac arrest. *Resuscitation*. 2015 Feb;87:7-13. doi: 10.1016/j.resuscitation.2014.10.019. Epub 2014 Nov 20. PubMed PMID: 25447036.
- Baucum RB, Phillips SE, **Ehrenfeld JM**, Muldoon RL, Poulouse BK, Herline AJ, Wise PE, Geiger TM. Association of Perioperative Hypothermia During Colectomy With Surgical Site Infection. *JAMA Surg*. 2015 Apr 22. doi: 10.1001/jamasurg.2015.77. [Epub ahead of print] PubMed PMID: 25902410.
- Benzou HT, **Huntoon MA**, Rathmell JP. Improving the Safety of Epidural Steroid Injections. *JAMA*. 2015 Mar 30. doi: 10.1001/jama.2015.2912. [Epub ahead of print] PubMed PMID: 25822848.
- **Bruehl S**, Burns JW, Passik SD, **Gupta R**, Buvanendran A, **Chont M**, Schuster E, Orlowska D, France CR. The Contribution of Differential Opioid Responsiveness to Identification of Opioid Risk in Chronic Pain Patients. *J Pain*. 2015 Apr 16. pii: S1526-5900(15)00626-4. doi: 10.1016/j.jpain.2015.04.001. [Epub ahead of print] PubMed PMID: 25892658.
- **Bruehl S**. Personalized Pain Medicine: Pipe Dream or Reality? *Anesthesiology*. 2015 Mar 6. [Epub ahead of print] PubMed PMID: 25751235.
- Bulka CM, Shotwell MS, **Ehrenfeld JM**. Reply to Dr Bhatia. *Reg Anesth Pain Med*. 2015 Jan-Feb;40(1):86-7. doi: 10.1097/AAP.0000000000000202. PubMed PMID: 25503352.
- Duggan EM, **Patel VP**, Blakely ML. Inguinal hernia repair in premature infants: more questions than answers. *Arch Dis Child Fetal Neonatal Ed*. 2015 Feb 20. pii: fetalneonatal-2012-302964. doi: 10.1136/archdischild-2012-302964. [Epub ahead of print] PubMed PMID: 25710179.
- Dutton RP, **Lee LA**, Stephens LS, Posner KL, Davies JM, Domino KB. Massive hemorrhage: a report from the anesthesia closed claims project. *Anesthesiology*. 2014 Sep;121(3):450-8. doi: 10.1097/ALN.0000000000000369. PubMed PMID: 25000278. (cover article with editorial)
- **Ehrenfeld JM**, **Wanderer JP**. The limitations of manually entered data in acute care environments. *Can J Anaesth*. 2015 Mar;62(3):327-8. doi: 10.1007/s12630-014-0276-9. Epub 2014 Nov 15. PubMed PMID: 25398600.
- **Ehrenfeld JM**. The current and future needs of our medical systems. *J Med Syst*. 2015 Feb;39(2):212. doi: 10.1007/s10916-015-0212-8. Epub 2015 Feb 1. PubMed PMID: 25638720.
- Emler DR, **Shaw AD**, Kellum JA. Sepsis-Associated AKI: Epithelial Cell Dysfunction. *Semin Nephrol*. 2015 Jan;35(1):85-95. doi: 10.1016/j.semnephrol.2015.01.009. Review. PubMed PMID: 25795502.
- Fagley RE, Haney MF, Beraud AS, Comfere T, Kohl BA, Merkel MJ, Pustavoitau A, von Homeyer P, **Wagner CE**, Wall MH. Critical care basic ultrasound learning goals for american anesthesiology critical care trainees: recommendations from an expert group. *Anesth Analg*. 2015 May;120(5):1041-53. doi: 10.1213/ANE.0000000000000652. PubMed PMID: 25899271.
- Feng X, Zhang Y, Shao N, Wang Y, Zhuang Z, Wu P, Lee MJ, Liu Y, Wang XH, Zhuang J, **Delpire E**, Gu D, Cai H. Aldosterone Modulates Thiazide-Sensitive Sodium Chloride Cotransporter (NCC) Abundance via DUSP6-Mediated ERK 1/2 Signaling Pathway. *Am J Physiol Renal Physiol*. 2015 Mar 11;ajprenal.00543.2014. doi: 10.1152/ajprenal.00543.2014. [Epub ahead of print] PubMed PMID: 25761881.
- **Franklin AD**, **Lorinc AN**, Shotwell MS, Greene EB, Wushensky CA. Evaluation of the skin to epidural and subarachnoid space distance in young children using magnetic resonance imaging. *Reg Anesth Pain Med*. 2015 May-Jun;40(3):245-8. doi: 10.1097/AAP.0000000000000234. PubMed PMID: 25899953.
- Ghamari-Langroudi M, Digby GJ, Sebag JA, Millhauser GL, Palomino R, Matthews R, Gillyard T, Panaro BL, Tough IR, Cox HM, **Denton JS**, Cone RD. G-protein-independent coupling of MC4R to Kir7.1 in hypothalamic neurons. *Nature*. 2015 Jan 19. doi: 10.1038/nature14051. [Epub ahead of print] PubMed PMID: 25600267.
- Hastings HM, **Wagner CE**. Hypothermia after cardiac arrest. *Crit Care Med*. 2014 Dec;42(12):e799. doi: 10.1097/CCM.0000000000000618. PubMed PMID: 25402304.
- Hotchkiss RS, **Sherwood ER**. Immunology. Getting sepsis therapy right. *Science*. 2015 Mar 13;347(6227):1201-2. doi: 10.1126/science.aaa8334. PubMed PMID: 25766219.
- Ihejirika RC, Thakore RV, Sathiyakumar V, **Ehrenfeld JM**, Obremsky WT, Sethi MK. An assessment of the inter-rater reliability of the ASA physical status score in the orthopaedic trauma population. *Injury*. 2015 Apr;46(4):542-6. doi: 10.1016/j.injury.2014.02.039. Epub 2014 Mar 11. PubMed PMID: 24656923.
- Johnson DJ, Greenberg SE, Sathiyakumar V, Thakore R, **Ehrenfeld JM**, Obremsky WT, Sethi MK. Relationship between the Charlson Comorbidity Index and cost of treating hip fractures: implications for bundled payment. *J Orthop Traumatol*. 2015 Feb 20. [Epub ahead of print] PubMed PMID: 25697846.
- Kamat NV, Thabet SR, Xiao L, Saleh MA, Kirabo A, Madhur MS, **Delpire E**, Harrison DG, McDonough AA. Renal Transporter Activation During Angiotensin-II Hypertension is Blunted in Interferon- γ -/- and Interleukin-17A-/- Mice. *Hypertension*. 2015 Jan 19. pii: HYPERTENSIONA-HA.114.04975. [Epub ahead of print] PubMed PMID: 25601932.
- Kellum JA, Sileanu FE, Murugan R, Lucko N, **Shaw AD**, Clermont G. Classifying AKI by Urine Output versus Serum Creatinine Level. *J Am Soc Nephrol*. 2015 Jan 7. pii: ASN.2014070724. [Epub ahead of print] PubMed PMID: 25568178.
- Kiberenge RK, **Lam H**. Fatal hyperammonemia after repeat renal transplantation. *J Clin Anesth*. 2015 Jan 5. pii: S0952-8180(14)00321-3. doi: 10.1016/j.jclinane.2014.09.008. [Epub ahead of print] PubMed PMID: 25573265.
- **Kilkelly J**, **Kinch J**. An Innovative Paradigm: Coordinating Anesthetic Care for Complex Pediatric Patients requiring Multiple Procedures. *J Anesth Clin Res*. 2015;5:490. doi: 10.4172/2155-6148.1000490.
- Kolek MJ, Muehlschlegel JD, Bush WS, Parvez B, Murray KT, Stein CM, Shoemaker MB, Blair MA, Kor KC, Roden DM, **Donahue BS**, Fox AA, Shernan SK, Collard CD, Body SC, Darbar D. A Combined Genetic and Clinical Risk Prediction Model for Postoperative Atrial Fibrillation. *Circ Arrhythm Electrophysiol*. 2015 Jan 7. pii: CIRCEP.114.002300. [Epub ahead of print] PubMed PMID: 25567478.
- Koyner JL, Davison DL, Brasha-Mitchell E, Chalikonda DM, Arthur JM, **Shaw AD**, Tumlin JA, Trevino SA, Bennett MR, Kimmel PL, Seneff MG, Chawla LS. Furosemide Stress Test and Biomarkers for the Prediction of AKI Severity. *J Am Soc Nephrol*. 2015 Feb 5. pii: ASN.2014060535. [Epub ahead of print] PubMed PMID: 25655065.
- **Kumar AB**, Zimmerman MB, Sunaja M. Obesity and cardiopulmonary bypass-associated acute kidney injury: authors' reply. *J Cardiothorac Vasc Anesth*. 2015 Apr;29(2):e12-3. doi: 10.1053/j.jvca.2014.08.016. Epub 2014 Dec 24. PubMed PMID: 25542848.
- **Kumar AB**. Traumatic brain injury: A focus on monitoring the injured brain, Current Concepts in Adult Critical Care 2015. Edited by Greenberg S, Bittner EA. Mount Prospect, Illinois, Society of Critical Care Medicine, 2015, pp 65-73.
- Ladner TR, Mahdi J, Attia A, Froehler MT, Le TM, **Lorinc AN**, Mocco J, Naftel RP, Newton AT, Pruthi S, Tenenholz T, Vance EH, Wushensky CA, Wellons JC 3rd, Jordan LC. A multispecialty pediatric neurovascular conference: a model for interdisciplinary management of complex disease. *Pediatr Neurol*. 2015 Feb;52(2):165-73. doi: 10.1016/j.pediatrneurol.2014.10.010. Epub 2014 Oct 16. PubMed PMID: 25693581.
- **Lam H**, **Dare S**, **Nguyen T**, **Austin T**. Anesthesia for a pediatric patient with cardiofaciocutaneous syndrome. A Case Rep. 2015 Apr 1;4(7):95-6. doi: 10.1213/XAA.0000000000000129. PubMed PMID: 25827862.

- **Lam H, Kiberenge R, Nguyen T, Sobey JH, Austin T.** Anesthetic management of a patient with isovaleric acidemia. *A A Case Rep.* 2015 Feb 1;4(3):37-8. doi: 10.1213/XAA.0000000000000096. PubMed PMID: 25642957.
- **Lee LA, Caplan RA, Stephens LS, Posner KL, Terman GW, Voepel-Lewis T, Domino KB.** Postoperative Opioid-induced Respiratory Depression: A Closed Claims Analysis. *Anesthesiology.* 2015 Mar;122(3):659-65. doi: 10.1097/ALN.0000000000000564. PubMed PMID: 25536092. (with editorial)
- **McQueen K, Coonan T, Ottaway A, Dutton RP, Nuevo FR, Gathuya Z, Wilson IH.** Anesthesia and perioperative care, Disease Control Priorities in Developing Countries, 3rd edition. Edited by Jamison D. Washington DC, World Bank, 2015, chapter 15 (on-line publication).
- **McQueen KA.** Comparison of two models of surgical care for patients with clefts in peru. *World J Surg.* 2015 Jan;39(1):54. doi: 10.1007/s00268-014-2619-7. PubMed PMID: 24903016.
- **Narouze S, Benzon HT, Provenzano DA, Buvanendran A, De Andres J, Deer TR, Rauck R, Huntoon MA.** Interventional spine and pain procedures in patients on antiplatelet and anticoagulant medications: guidelines from the american society of regional anesthesia and pain medicine, the European society of regional anaesthesia and pain therapy, the american academy of pain medicine, the international neuromodulation society, the north american neuromodulation society, and the world institute of pain. *Reg Anesth Pain Med.* 2015 May-Jun;40(3):182-212. doi: 10.1097/AAP.0000000000000223. PubMed PMID: 25899949.
- **Nguyen TT, Lam HV, Phillips M, Edwards C, Austin TM.** Intraoperative optimization to decrease postoperative PRBC transfusion in children undergoing craniofacial reconstruction. *Paediatr Anaesth.* 2015 Mar;25(3):294-300. doi: 10.1111/pan.12600. Epub 2014 Dec 11. PubMed PMID: 25495602; PubMed Central PMCID: PMC4308555.
- **Price DW, Wagner DP, Krane NK, Rougas SC, Lowitt NR, Offodile RS, Easdown LJ, Andrews MA, Kodner CM, Lypson M, Barnes BE.** What are the implications of implementation science for medical education? *Med Educ Online.* 2015 Apr 23;20:27003. doi: 10.3402/meo.v20.27003. eCollection 2015. PubMed PMID: 25911282.
- **Rathmell JP, Benzon HT, Dreyfuss P, Huntoon M, Wallace M, Baker R, Riew KD, Rosenquist RW, Aprill C, Rost NS, Buvanendran A, Kreiner DS, Bogduk N, Fourny DR, Fraifeld E, Horn S, Stone J, Vorenkamp K, Lawler G, Summers J, Klothe D, O'Brien D Jr, Tutton S.** Safeguards to Prevent Neurologic Complications after Epidural Steroid Injections: Consensus Opinions from a Multidisciplinary Working Group and National Organizations. *Anesthesiology.* 2015 Feb 9. [Epub ahead of print] PubMed PMID: 25668411.
- **Richards JE, Morris BJ, Guillamondegui OD, Sweeney KR, Tressler MA, Obrensky WT, Gregor PJ.** The effect of body mass index on posttraumatic transfusion after pelvic trauma. *Am Surg.* 2015 Mar;81(3):239-44. PubMed PMID: 25760198.
- **Schlesinger JJ, Burger CF.** Methylene Blue for Acute Septic Cardiomyopathy in a Burned Patient. *J Burn Care Res.* 2015 Mar 20. [Epub ahead of print] PubMed PMID: 25798807.
- **Schlesinger JJ.** Applications of a Noninvasive Respiratory Volume Monitor for Critical Care Medicine. *Respir Care.* 2015 Jan 27. pii: resp-care.03744. [Epub ahead of print] PubMed PMID: 25628450.
- **Semler MW, Keriwala RD, Clune JK, Rice TW, Pugh ME, Wheeler AP, Miller AN, Banerjee A, Terhune K, Bastarache JA.** A Randomized Trial Comparing Didactics, Demonstration, and Simulation for Teaching Teamwork to Medical Residents. *Ann Am Thorac Soc.* 2015 Mar 2. [Epub ahead of print] PubMed PMID: 25730661.
- **Semler MW, Weavind L, Hooper MH, Rice TW, Gowda SS, Nadas A, Song Y, Martin JB, Bernard GR, Wheeler AP.** An Electronic Tool for the Evaluation and Treatment of Sepsis in the ICU: A Randomized Controlled Trial. *Crit Care Med.* 2015 Apr 10. [Epub ahead of print] PubMed PMID: 25867906.
- **Sileshi B, Haglund NA, Davis ME, Tricarico NM, Stulak JM, Khalpey Z, Danter MR, Deegan R, Kennedy J, Keebler ME, Maltais S.** In-hospital outcomes of a minimally invasive off-pump left thoracotomy approach using a centrifugal continuous-flow left ventricular assist device. *J Heart Lung Transplant.* 2015 Jan;34(1):107-12. doi: 10.1016/j.healun.2014.09.023. Epub 2014 Sep 28. PubMed PMID: 25447579.
- **Sileshi B, Hocking KM, Boyer RB, Baudenbacher FJ, Kohurst KL, Brophy CM, Eagle S.** Peripheral venous waveform analysis for detecting early hemorrhage: a pilot study. *Intensive Care Med.* 2015 Apr 11. [Epub ahead of print] PubMed PMID: 25862041.
- **Sileshi B, Shaw A.** Sepsis: Protocolized care for critically ill patients with AKI. *Nat Rev Nephrol.* 2015 Jan;11(1):10-1. doi: 10.1038/nrneph.2014.204. Epub 2014 Nov 4. PubMed PMID: 25366042.
- **Starnes JR, Wanderer JP, Ehrenfeld JM.** Metadata from data: identifying holidays from anesthesia data. *J Med Syst.* 2015 May;39(5):232. doi: 10.1007/s10916-015-0232-4. Epub 2015 Mar 3. PubMed PMID: 25732080.
- **Swale DR, Sheehan JH, Banerjee S, Husni AS, Nguyen TT, Meiler J, Denton JS.** Computational and Functional Analyses of a Small-Molecule Binding Site in ROMK. *Biophys J.* 2015 Mar 10;108(5):1094-103. doi: 10.1016/j.bpj.2015.01.022. PubMed PMID: 25762321.
- **Vansell HJ, Schlesinger JJ, Harvey A, Rohde JP, Persaud S, McQueen KA.** Anaesthesia, surgery, obstetrics, and emergency care in Guyana. *J Epidemiol Glob Health.* 2015 Mar;5(1):75-83. doi: 10.1016/j.jegh.2014.08.003. Epub 2014 Oct 7. PubMed PMID: 25700926.
- **Wade JB, Liu J, Coleman RA, Grimm PR, Delpire E, Welling PA.** SPAK Mediated NCC Regulation in Response to Low K+ Diet. *Am J Physiol Renal Physiol.* 2015 Jan 28;ajprenal.00388.2014. doi: 10.1152/ajprenal.00388.2014. [Epub ahead of print] PubMed PMID: 25651563.
- **Wagner CE, Bick JS, Kennedy J, Haglund N, Danter M, Davis ME, Shaw A, Maltais S.** Minimally Invasive Thoracic Left Ventricular Assist Device Implantation; Case Series Demonstrating an Integrated Multidisciplinary Strategy. *J Cardiothorac Vasc Anesth.* 2014 Nov 11. pii: S1053-0770(14)00545-X. doi: 10.1053/j.jvca.2014.11.007. [Epub ahead of print] PubMed PMID: 25649695.
- **Wanderer JP, Ehrenfeld JM, Epstein RH, Kor DJ, Bartz RR, Fernandez-Bustamante A, Melo MF, Blum JM.** Temporal trends and current practice patterns for intraoperative ventilation at U.S. academic medical centers: a retrospective study. *BMC Anesthesiol.* 2015 Mar 28;15:40. doi: 10.1186/s12871-015-0010-3. eCollection 2015. PubMed PMID: 25852301; PubMed Central PMCID: PMC4387596.
- **Wanderer JP, Rathmell JP.** Perioperative transfusion: a complicated story. *Anesthesiology.* 2015 Feb;122(2):A23. doi: 10.1097/01.anes.0000459438.03762.ee. PubMed PMID: 25603222.
- **Wanderer JP, Rathmell JP.** Perioperative transfusion: a complicated story. *Anesthesiology.* 2015 Jan;122(1):A23. doi: 10.1097/01.anes.0000457227.87496.c8. PubMed PMID: 25611672.
- **Wanderer JP, Rathmell JP.** Quality of Life: Measuring Disability-free Survival. *Anesthesiology.* 2015 Mar;122(3):A23. doi: 10.1097/01.anes.0000460477.53093.b9. PubMed PMID: 25689770.
- **Wanderer JP, Rathmell JP.** Unconventional ventilation: high frequency oscillatory ventilation & adaptive support ventilation. *Anesthesiology.* 2015 Apr;122(4):A23. doi: 10.1097/01.anes.0000462504.80258.4f. PubMed PMID: 25782655.
- **Wanderer JP, Shi Y, Schildcrout JS, Ehrenfeld JM, Epstein RH.** Supervising anesthesiologists cannot be effectively compared according to their patients' postanesthesia care unit admission pain scores. *Anesth Analg.* 2015 Apr;120(4):923-32. doi: 10.1213/ANE.0000000000000480. PubMed PMID: 25325754.
- **Weaver SM, Kumar AB.** Epithelioid hemangioma of the spine: an uncommon cause of spinal cord compression. *Acta Neurol Belg.* 2015 Feb 12. [Epub ahead of print] PubMed PMID:

• Weinger MB, Slagle JM, Kuntz AH, Schildcrout JS, Banerjee A, Mercaldo ND, Bills JL, Wallston KA, Speroff T, Patterson ES, France DJ. A Multimodal Intervention Improves Post-Anesthesia Care Unit Handovers. *Anesth Analg.* 2015 Mar 24. [Epub ahead of print] PubMed PMID: 25806398.

• Whiting PS, Greenberg SE, Thakore RV, Alamanda VK, Ehrenfeld JM, Obremsky WT, Jahangir A, Sethi MK. What factors influence follow-up in orthopedic trauma surgery? *Arch Orthop Trauma Surg.* 2015 Jan 24. [Epub ahead of print] PubMed PMID: 25617213.

• Wise ES, Ladner TR, Song J, Eagle SS, Mocco J, Wergin JE, Hocking KM, Brophy CM. Race as a predictor of delay from diagnosis to endarterectomy in clinically significant carotid stenosis. *J Vasc Surg.* 2015 Mar 13. pii: S0741-5214(15)00187-1. doi: 10.1016/j.jvs.2015.01.057. [Epub ahead of print] PubMed PMID: 25776188.

• Zundel MT, Pattyn M, Chelimsky TC, Riess ML. Arterial flow waveforms, vascular tone, and chronic fatigue: A case report. *Auton Neurosci.* 2015 Mar 24. pii: S1566-0702(15)00021-1. doi: 10.1016/j.autneu.2015.03.003. [Epub ahead of print] PubMed PMID: 25817901.

Accepted for Publication

• Kharade, S.V., Swale, D.R., Denton, J.S. Invited commentary: ROMK channel pharmacology comes of age. *Channels.* 2015 (In press)

Submit your department news/photos to **Anesthesiology Communications:**

AnesthesiologyCommunications@email.mc.vanderbilt.edu

OFFICE OF THE CHAIR
1211 21ST AVENUE SOUTH, 722 MAB
NASHVILLE, TN 37212
615-936-1595



2015-2016 Chief Residents



Daltry Dott, MD
Hometown: College Station, TX
Education: The University of Texas at Austin for college
The University of Texas Medical Branch for medical school. She began her residency at Vanderbilt in July 2012.



Kelly Kohorst, MD
Hometown: Aurora, IN
Education: Murray State University, BS in biology
Vanderbilt University for medical school. She began her residency at Vanderbilt in July 2012.



Brian O'Hara, MD
Hometown: Clearwater, FL
Education: University of Florida
Florida State University for medical school. He began his residency at Vanderbilt in July 2012.



Primitive anesthesiologists