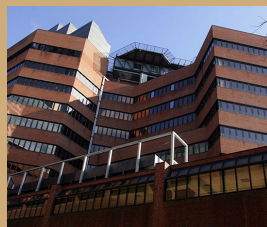


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MESSAGE FROM THE CHAIR



Warren S. Sandberg, MD, PhD

As we wrap up another academic year, we embark upon a new path of opportunities as part of Vanderbilt University Medical Center, which has once again been named among the “100 great hospitals in America” by *Becker’s Hospital Review*.

We, as a department, have been and will continue to be led by our four core values as we face the future of healthcare. Our compassion, creativ-

ity, commitment and collaborative efforts will be our guiding principles in the clinical, education and research enterprises.

Each of you demonstrates the 4C’s on a daily basis, evidenced by the stories shared by patients and colleagues. We remain at the forefront of local, national and international headlines as we tackle the challenges facing our complex population. We are engaged in compassionate patient care through pain management as we face the challenges of the opioid epidemic; we are equipping providers who will practice safe anesthesia around the world; we are mentoring young investigators in developing clinical research projects leading to extramural funding. These actions, and countless others, tell our story of compassion, creativity, commitment and collaboration, as seen throughout this issue. The Dr. James

Phythyon Endowed Lectureship in Pediatric Anesthesiology, the Vanderbilt International Anesthesia Dinner and the 12th Annual Research Symposium are some of the key events highlighted in the next few pages.

I close with a message sent recently from a patient’s family member to one of our servant leaders:

“The obvious care and concern you showed us during the carotid artery surgery will be remembered.

Your patience in explaining and your compassion for our anxiety were apparent.

Thank you so very much for your skill and all the above.

We are very grateful and wanted you to hear this from us.”

Phythyon Endowed Lectureship promotes patient safety

Renuka Christoph

The 11th Annual Dr. James Phythyon Endowed Lectureship in Pediatric Anesthesiology took place May 20, 2016. Patrick J. Guffey, MD, discussed the Anesthesia Incident Reporting System (AIRS), a premier online tool that gathers individual adverse events from anesthesia, pain management and perioperative care to improve patient safety. AIRS, maintained by the Anesthesia Quality Institute (AQI), allows senders to submit reports anonymously. Vice Chair of Faculty Affairs Matt Weinger, MD, serves as vice chair on the board of directors of AQI.



Patrick Guffey, MD, Warren S. Sandberg, MD, PhD, Sarah Miller, Suanne Daves, MD, Elizabeth Donner, Marlin Sanders, Madolyn Miller, Andrew Shaw, MB, FRCA, FFICM, FCCM

Dr. James Phythyon served as a faculty member in the department and was a founding member of the Division of Pediatric Anesthesiology. Family members Sarah Miller, Elizabeth Donner, Marlin Sanders and Madolyn Miller are pictured above.

Department names Brian J. Gelfand, MD, as Associate Vice Chair for Educational Affairs

Amy Nabours



Brian J. Gelfand, MD, has joined the department as Associate Vice Chair for Educational Affairs. Gelfand assumes the role of Residency Program Director from Dr. Matthew McEvoy, who will remain the Vice Chair for Educational Affairs and continue

to build on the department's educational efforts for all learner groups. Gelfand has also been appointed Associate Professor of Anesthesiology and will practice clinically in the Division of Cardiothoracic Anesthesiology.

Gelfand comes to Vanderbilt from the University of Florida, where he was Associate Chair for Education and Program Director in the Department of Anesthesiology. He also held academic appointments as Associate Professor of Anesthesiology and Joint Associate Professor of Surgery.

Gelfand received his medical degree from the University of Health Sciences, Chicago Medical School in Chicago, Illinois in 1991. He completed his residency in General Surgery at the Maine Medical Center in Portland, Maine in 1996 and a residency in Anesthesiology at Brigham and Women's Hospital, Harvard Medical School in Boston, Massachusetts in 2007, followed by a fellowship in Cardiothoracic Anesthesiology at Brigham and Women's Hospital, Harvard Medical School, which he completed in 2008. In the past, Gelfand has held leadership positions in Anesthesiology with Brigham and Women's Hospital in Boston and in Surgery with Nassau University Medical Center in East Meadow, New York.

"Dr. Gelfand is an excellent educator, he has a robust vision for the future of anesthesiology education, and, most importantly, he is a strong resident advocate. His vision for the future of residency education and for support of the residency synergizes with that of Dr. McEvoy and departmental leadership. The opportunity to add Brian to the leadership team allows us to pursue even bigger goals in the education realm," said Warren Sandberg, MD, PhD, chair of the Department of Anesthesiology.

Outside the hospital, Gelfand's work in the community includes serving as FTX Medical Support for the US Army and ROTC program at the University of Florida, as a Tactical Combat Casualty Course Instructor, and as an Instructor for the National Association of Emergency Medical Technicians (NAEMT).

Grant awarded for neonatal health services research



Dr. Dan France, Research Associate Professor of Anesthesiology and Medicine

Renuka Christoph

Dan France, PhD, MPH, has been awarded a 4-year grant from the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD) to research the risks faced by neonates in the perioperative environment, an area where little patient safety research has been conducted.

The rate of adverse events that occur among neonates is eight times higher than that of hospitalized adults. Adverse events are estimated to occur at a rate of 74 events per every 100 NICU patients, with one third being severe events. Neonates are highly vulnerable to adverse events due to their small size, fragility and exceptional sensitivity to environmental stressors.

France seeks to decrease neonatal mortality and morbidity by elucidating the etiology of system failures during perioperative care. The work will apply the construct of the *non routine event* (NRE), a concept Matt Weinger, MD, adapted from the nuclear power industry and applied to healthcare. A NRE is

defined as any event that is perceived by care providers or skilled observers as a deviation from optimal care based on the clinical situation. France will also work with Amanda Lorinc, MD, who has been doing extensive research on handovers from NICU to OR.

The goal of the project is to determine how NREs impact neonatal safety. The research team will utilize stationary and hand-held cameras to record the continuum of perioperative care (i.e., NICU-to-OR, OR-to-NICU) for surgical neonates. Footage, which will be protected and viewed only by the research team, will be used to characterize the nature and severity of NREs occurring during each episode of care. After completing the comprehensive epidemiological study at Vanderbilt, the team will partner with the hospitals participating in the Tennessee Initiative for Perinatal Quality Care (TIPQC) collaborative to conduct practical pilot testing of data collection tools and measures.

THE TEAM:

Dan France, PhD, MPH (PI) – Biomedical Engineer and Patient Safety Researcher

Marty Blakely, MD, MS (Dual PI) – Pediatric Surgeon

Peter Grubb, MD – Neonatologist and Medical Director of the Tennessee Initiative for Perinatal Quality Care (TIPQC)

Jason Slagle, PhD – Industrial/Organization Psychologist and Patient Safety Researcher

Amanda Lorinc, MD – Anesthesiologist

Matt Weinger, MD – Anesthesiologist

Christoph Lehmann, MD – Neonatologist & Informatician

James Gay, MD – Hematology/Oncology; Administrative Data Expert for Pediatrics

Amy Potts, PharmD, BCPS – Clinical Pharmacist

Matt Shotwell, PhD – Biostatistician

John Brock III, MD – Surgeon-in-Chief at Monroe Carell Jr. Children's Hospital at Vanderbilt

Marlee Crankshaw, DNP, RN, CNML – Director of Neonatal Services

Tamara Wallace, DNP, APRN, NNP-BC – Neonatal Nurse Practitioner, Quality Improvement Specialist for TIPQC

Department faculty/staff shine at Research Symposium

The 12th Annual Research Symposium took place May 6, highlighting the current research of clinical and translational investigators and basic scientists



Loren Smith, MD, PhD; Travis Spain; Susan Eagle, MD; Josh Billings, MD, MSCI; Brad Grueter, PhD; Sujay Kharade, PhD; Brandon Turner*

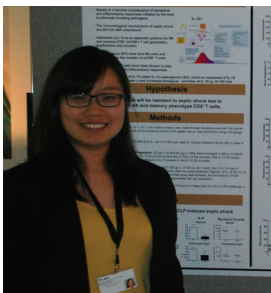


Warren S. Sandberg, MD, PhD, Evan D. Kharasch, MD, PhD, Edward Sherwood, MD, PhD

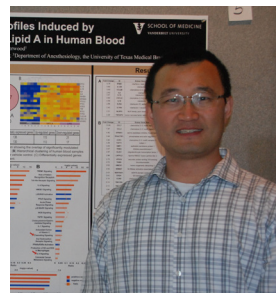


Congratulations to this year's symposium award winners!

Charles Bernard Pittinger Prize Basic Science Research	Brad Grueter, PhD
Charles Bernard Pittinger Prize Clinical Translational Research	Josh Billings, MD, MSCI
Charles Bernard Pittinger Prize Health Services and Informatics Research	Jon Wanderer, MD, MPhil
Best Oral Presentation	Loren Smith, MD, PhD
Best Poster Presentation	Sujay Kharade, PhD
Best Poster Presentation	Brandon Turner
Roger England Research Award for Excellence in Support of Basic and Clinical Science	Travis Spain
The Bradley Smith Mentorship Award	Susan Eagle, MD



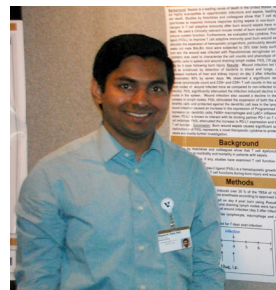
Yin Guo*



Liming Luan, PhD



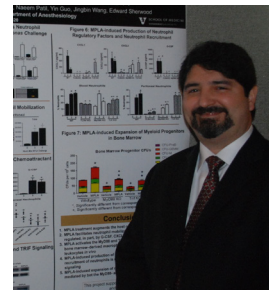
Sujay Kharade, PhD



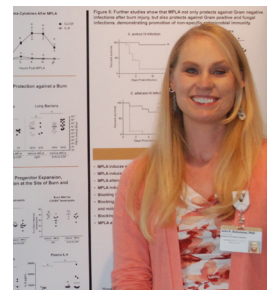
Naeem Patil, MBBS, PhD



Daniel Kashima*



Antonio Hernandez, MD



Julia Bohannon, PhD

*PhD student

Department Spotlight



Tracy Jackson, MD, presented “The Hardest Pill to Swallow” on chronic pain and opioid addiction at the TEDx Nashville event in April.

Matthew McEvoy, MD, is now a member of the Vanderbilt Academy for Excellence in Teaching and joins members Warren S. Sandberg, MD, PhD, Scott Watkins, MD, Amy Robertson, MD, Jesse Ehrenfeld, MD, Michael Richardson, MD, Jane Easdown, MD, and Michael Pilla, MD.

Andrew Shaw, MB, FRCA, FFICM, FCCM has been invited to edit the 6th edition of Hensley’s Cardiac Anesthesia textbook, along with Dr. Glenn Gravlee and Dr. Karsten Bartels from UC Denver.

Mias Pretorius, MBChB, MSCI, Associate Professor of Anesthesiology and Medicine, has been named Division Chief of Cardiothoracic Anesthesiology.

Dr. Arna Banerjee, MBBS, received the R. Michael Rodriguez Award for Excellence in Teaching at this year’s Faculty Award Ceremony held May 3, 2016. Banerjee was also recently named to the ASA’s Ad-Hoc Screen-Based Simulation Committee.

James Berry, MD, has accepted the position of Interim Anesthesia Chief at Mission Hospital in North Carolina.

Josh Billings, MD, MSCI, has been invited to speak at the Anesthesia Grand Rounds at the University of California, San Francisco in August.

Julia Bohannon, PhD, has been endorsed by the VUMC Faculty Research Scholars program and offered a place in the program.

Loren Smith, MD, PhD, received AUA’s Margaret Wood Resident Research Award and SOCCA’s Young Investigator Award for her abstract “A Novel Association Between High Density Lipoprotein Levels and the Risk of Acute Kidney Injury After Cardiac Surgery.”

Edward Sherwood, MD, PhD, has been selected to join the AUA Scientific Advisory Board for 2016. The SAB is responsible for planning the scientific program of the AUA Annual Meeting.

Michael Pilla, MD, has been asked to serve as vice chair of the ASA Committee on Problem-Based Learning discussions for the 2017 governance year.

Rajnish Gupta, MD, has been promoted to Associate Professor of Anesthesiology.

Jason Slagle, PhD, has been promoted to Research Associate Professor of Anesthesiology.

Marc Lopez, MD, received approval for FAER funding for his application entitled “The Effects of Perioperative Oxygenation on Endothelial Function,” with Josh Billings, MD, MSCI, as the primary mentor.

Doug Hester, MD, was one of four “poets who heal” who read April 19 at the Williamson County Public Library. “Alternative Medicine: Poets Who Heal” was presented as part of the Vanderbilt University Lectures in the Library series.

Liza Weavind, MBBCh, MMHC, FCCM, has been elected to VU School of Medicine Faculty Senate.

Adam King, MD, presented his abstract “Effect of an Enhanced Recovery After Surgery Pathway for Living Donor Nephrectomy Patients,” earning a top 4 rating at the ASER Annual Congress in April.

A one-year grant award of \$45,000 from The Vanderbilt Diabetes Research and Training Center was received by Carrie Grueter, PhD, for her Pilot & Feasibility grant proposal entitled “DGAT1 as a central regulator of diet-induced obesity.”

Jesse Ehrenfeld, MD, MPH, co-chaired a panel on medical-school education reform at the Association of Health Care Journalists’ national conference in Cleveland, Ohio on April 9, 2016. He also addressed the conference of health journalists as a member of the American Medical Association’s Board of Trustees. For more information, see <http://gradynewsourc.uga.edu/blog/2016/05/13/innovation-in-health-education-designing-the-medical-school-of-tomorrow/>.

Stephen Bruehl, PhD, served on a panel led by Michael Anastasi, Executive Editor of the *Tennessean*, discussing “The Culture of Pain Treatment/Pain Medication” at the inaugural Tennessee Pain, Opioids, Problems and Solutions Forum.



Vanderbilt Academy for Excellence in Teaching members: Matthew McEvoy, MD, Jane Easdown, MD, Jesse Ehrenfeld, MD, MPH, Scott Watkins, MD, Amy Robertson, MD, Michael Richardson, MD, Warren S. Sandberg, MD, PhD Not pictured: Michael Pilla, MD

The TENNESSEAN
SUNDAY, APRIL 24, 2016

middle tennessee
business



Dr. Mark Newton examines a young baby in Kenya.

KENYA CONNECTION

Dr. Mark Newton shows visiting doctor from Zambia (who studied under Newton in Kenya and is now the only pediatric anesthesiologist in Zambia) Christopher Chanda, MChD, the anesthesiology station in an operating room at Monroe Carell Jr. Children's Hospital at Vanderbilt.

Vanderbilt Medical Center initiative is saving lives of people in East Africa
HOLLY FLETCHER | HFLETCHER@TENNESSEAN.COM

A medical team delivered a baby via cesarean section in South Sudan one night in a room lit by flashlights and cellphones. The woman lived and so did her baby.

If it hadn't been for a registered nurse trained to administer anesthesia the woman might have become one more mortality statistic on a continent where needing a C-section can mean death. While women in East Africa have access to hospitals, anesthesiologists are few and far between.

In Kenya, for instance, there are a just handful of anesthesiologists for a country of 44.3 million, compared to the 24 at Monroe Carell Jr. Children's Hospital at Vanderbilt alone.

But this woman was lucky enough to make it to a hospital that employs an RN who received 18 months of anesthesia training designed by a Vanderbilt University Medical Center department, and taught by a Vanderbilt anesthesiologist who lives full time an hour north of Nairobi.

See Kenya, Page 3D

Opioid epidemic affects all Tennesseans

DAVID EDWARDS



We are all narcotic users or potential narcotic users, unless you are of the fewer than 1 percent who get through life together hooked in the epicenter of the worst prescription drug storm in history. Morphine, oxycodone, dilaudid, and strong pain medicines like these are opioid narcotics. If you plan to use the medical system these days, be warned — you are going to be affected by changes that have come and changes that will come to limit opioid medication prescribing. I am sorry.

I am not sorry that we are limiting opioids, just that we created the problem we must swing it back to save our lives. For those who are not yet narcotic users, did you know that you have at least a 1 in 10 chance of being genetically inclined to addiction within your first exposure to a narcotic?

For those who previously used a narcotic, you made it through, but not unscathed. Your brain has been changed, it is now primed to want more.

For those on narcotics, you must be feeling the heat with all this attention! You are in pain and the medicine that takes it away for a time is being weaned down or stopped, and there's the stigma. There's dependence, and then, yes, there's addiction.

As a citizen patient, if I were you, this is what I would do to empower myself:

If I were to have a procedure or a surgery, first I would ask the doctor how long I should expect to take to recover. I would expect to require strong pain medicines. Then I would expect to be and if I should expect to use all non-medication pain management strategies that are available and ask what they offer. I would always use non-opioid pain medicine options first, if available. If that hospital or clinic does not offer any prescription and it was too large, I would ask for less. I don't want them to my home if I can help it. I would expect a reasonable taper plan from my doctor to help me stop as soon as I can. It is inappropriate to expect to be on narcotics long after surgery.

If I needed them for longer, I would expect help coming off them, not modern medicine. It puts you at risk of addiction, it changes your brain, it can steal away your job and your future. Opioid pain medicines in your house are proven worse than a loaded gun — they are lethal to your loved ones who use your pills.

Another thing you should expect is that your pain will not be completely gone. Surgery is painful. Thank goodness we do have opioids, and anesthesia, and other pain medicines for the times when nothing else will do. Other countries get through surgery and manage chronic painful conditions as well or better than we do, and use fractions of the opioids, or none at all.

Today is a new day, speak up. You don't need my permission, but I give it to you anyway. Talk openly to your doctor or nurse or pharmacist. There need be no animosity. Please accept that opioids are addictive. There are many people abuse them, even if it isn't you. But even if it is you — it is OK, and we all need help breaking this habit. If it is you, expect help.

David Edwards, MD, PhD, is clinical service chief of Inpatient Chronic Pain Service at Vanderbilt.

David Edwards, MD, authored OpEd in the *Tennessean* April 23, 2016 and was interviewed on WKRN April 24, 2016

Vanderbilt International Anesthesia featured in the *Tennessean* April 23, 2016

NEWS 2 otc
NASHVILLE

NEWS VIDEO WEATHER SPORTS PERFECT HEALTH PERFECT HOME COMMUNITY

Parents urged to use drug lockboxes to keep teens away from narcotics

By Joseph Phelan
Published May 6, 2016, 10:17 pm | Updated May 6, 2016, 10:30 pm



NASHVILLE, Tenn. (WKRN) — More than 50 percent of teens who abuse opioids said they had access to a family member's or friend's prescriptions. Opioid overdose killed more than 1,200 teens in Tennessee last year.

Doctors are urging parents to lockup prescription opioids and safely dispose of any leftover narcotic prescription pain medication to prevent the abuse of the drugs by

Additional Coverage

(See newsfeed on homepage of website)

Anesthesiology resident (Loren Smith, MD, PhD) lands research awards

Reporter, May 2016

Academy for Excellence in Teaching

Reporter, May 2016

Pretorius named to key Anesthesiology post

Reporter, May 2016

Faculty awards honor clinical, teaching, research excellence

Reporter, May 2016

Vanderbilt Anesthesia broadens global efforts

Reporter, April 2016

VUMC speakers shine at TEDx Nashville symposium

Reporter, April 2016

Report highlights global need for surgical services


Reporter, April 2016

ANESTHESIOLOGY NEWS

EDUCATION BUYER'S GUIDE MULTIMEDIA MEETINGS CLASSIFIEDS SUBSCRIPTIONS

Multimedia
APRIL 19, 2016

Improving Care With the ASRA Coags Regional App



It's been two years since the release of the American Society of Regional Anesthesia and Pain Medicine's (ASRA) Coags Regional app, and its developers are still tinkering away, looking for ways smartphone apps can help anesthesiologists improve patient care.

Raj Gupta, MD, interviewed in *Anesthesiology News* April 19, 2016

3..2..1 Takeoff

EpicLeap has launched

Renuka Christoph



The planning and prepping are well underway for the launch of EpicLeap, the electronic health record system that will be adopted across most of Vanderbilt, November 1, 2017. EpicLeap, which will be branded as eStar within VUMC, will allow the department full integration with the rest of the institution and opportunities to improve and enhance the patient experience.

Perioperative Informatics is playing a key role in the system conversion, collaborating with the Center for Research and Innovation in Systems Safety (CRISS) to evaluate and understand the end user's experience. CRISS's human factors researchers Russ Beebe and Carrie Reale, MSN, RN-BC, have been conducting field observations in the OR to understand how clinicians utilize GasChart in the real world. The data collected will improve the team's understanding of how end users interact with our current system to allow for optimal configuration of the new system.

"The iterative process of gathering feedback from the end users (providers) is vital for system design enhancements," states Reale.

Beebe and Reale are part of a VUMC user experience (UX) team that works collaboratively with HealthIT to improve the usability and safety of VUMC systems. The UX team is providing support to the EpicLeap initiative, such as user research, design and usability testing, to help enhance efficiency, effectiveness and satisfaction for end users across the organization. Shilo Anders, PhD, and Jie Xu, PhD, also with CRISS, are part of the team, as well as Tony Threatt, PhD, and Andrew Meagher from HealthIT.

With eStar, the quality of patient care will improve. Providers can expect better access to patient information across Vanderbilt and will gain electronic access to patient medical records from other medical facilities that use Epic. Additionally, features including online scheduling and the ability to deliver one bill to patients will improve department and institution efficiency and reduce costs.

Our current VPIMS application features will be moved to eStar as much as possible. To better prepare us for eStar implementation, some perioperative workflows will change in advance of November 1, 2017.

The department faculty members appointed as EpicLeap leaders are: Brian Rothman, MD, Core Design Advisor; Warren S. Sandberg, MD, PhD, Steering Committee; and Jonathan P. Wanderer, MD, MPhil, Subject Matter Expert.

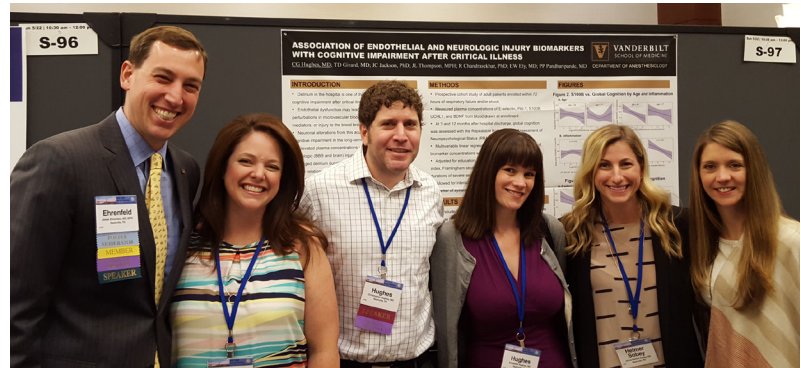
Society of Critical Care Anesthesiologists Annual Meeting San Francisco, CA



Jennifer Elia, MD, Matthew Hulse, MD, Sid Dave, MD, Loren Smith, MD, PhD, Patrick McConville, MD, MBA

"I would like to highlight the efforts of our residents, fellows and faculty at the most recent Society of Critical Care Anesthesiologists 29th annual meeting in San Francisco. There were 56 posters presented during this one-day national meeting, and Vanderbilt alone represented over 10% of them with 6 posters." Dr. Hayhurst

International Anesthesia Research Society (IARS) Annual Meeting and International Science Symposium San Francisco, CA



Jesse Ehrenfeld, MD, MPH, Heidi Smith, MD, MSCI, Chris Hughes, MD, Elisabeth Hughes, MD, Jenna Sobey, MD, Carrie Menser, MD

Vanderbilt International Anesthesia Global Retreat Nashville, TN



The Global Surgery retreat took place on April 9 with 40 global anesthesia, emergency medicine, obstetrics, public health and surgery leaders who gathered to discuss the VU contribution in providing safe anesthesia

Ambulatory Division sustains clinical and academic quality amidst unprecedented growth



Dr. Stephen Harvey, Ambulatory Division, presents poster at SAMBA's 31st Annual Meeting, May 2016

Amy Nabours

Since its beginning with only five rooms at the Nashville Surgery Center in 2007, the Ambulatory Division of the Department of Anesthesiology has experienced tremendous growth. Under Dr. Katherine Dobie's leadership as Division Chief since 2013, the division has grown to 12 full-time faculty members and a team of 34 CRNAs who support four centers and 26 anesthetizing locations. The division provides services for ~21,000 surgical cases per year out of the Department of Anesthesiology's ~48,000 total adult surgical cases in inpatient and outpatient settings, reflecting the trend toward further increases in outpatient surgeries.

Members of the Ambulatory Division are actively furthering the academic and research interests of our department. In May 2016, at the 31st annual meeting of the Society for Ambulatory Anesthesia (SAMBA), the division was well represented – presenting seven posters/abstracts out of a total of 42 accepted by the conference. Poster presenters from the division included: Dr. Katherine Dobie; Dr. Jane Brock; Dr. Lisa Jaeger; Dr. Michael Higgins; Dr. Kelly McQueen; Dr. Stephen Harvey; Dr. Christopher Canlas; and Dr. Uma Shastri, along with departmental resident Dr. Jonathan Niconchuk and CRNA Shawn Palmiter. The division's further involvement in SAMBA, the primary ambulatory anesthesia sub-specialty organization, includes representation on multiple committees and continued contribution of data to the SAMBA Clinical Outcomes Registry (SCOR). Data collection for SCOR represents a six-year effort to date, and is led by Dr. Jane Brock.

Change and growth remain constants for the Ambulatory Division. In 2014, under the leadership of Medical Director Dr. Stephen Harvey, the division assumed responsibility for the Medical Center East ORs - this transition occurred over one weekend when new service lines were introduced into the area. In addition to acquiring new surgical services with unique anesthetic considerations, the transition resulted in remarkable operational improvements: a reduction in turnover times (TOT) from 43 minutes to 33 minutes (18 month comparison, 95% CI) and an increase in

first case on-time starts (FCOTS) from 61% to 71% (18 month comparison, 95% CI) in an area that sees over 8,000 cases/year. In the same weekend, Dr. Eric Briggs, medical director of Vanderbilt Outpatient Surgery (VOS), acquired Nashville Surgery Center's sports orthopedic cases into VOS (formerly named FEL), where most of the institution's otolaryngology cases were done prior to the transition. VOS is also the home to the Regional rotation, one of three resident rotations that the division offers: Regional, Outpatient Surgical Home, and Ambulatory junior.

Williamson Medical Center, are now cared for at Vanderbilt Bone and Joint Surgery Center. They are sent home on the day of surgery with a continuous peripheral nerve block catheter in order to have adequate pain control at home after extensive surgery. So far, none of the patients have been re-admitted to the hospital.

Further growth is on the horizon as the division prepares for a new challenge – providing services for the Vivere Fertility Clinic in Nashville, starting in May of 2016. The ability to adjust to these changes while maintaining clinical efficiency and quality, and at the same time continuing to pursue excellence in scholarly and educational endeavors, demonstrates how the Ambulatory Division can enhance the position of our department and that of VUMC as a leading academic medical center.

“While the demands are many, this is an exciting time in healthcare. We are being asked to rethink how we do things—how to improve outcomes, safety, and patient experience—in a leaner environment. Outpatient surgery is a big part of this, and Ambulatory Anesthesiology will prove to be a key in our ability to successfully answer the challenges, and at what pace. At Vanderbilt, we are re-

The four centers serviced by the VUMC Department of Anesthesiology's Ambulatory Division now include:

- Cool Springs Surgery Center (CSSC), Dr. E. Jane Brock, Medical Director
- Vanderbilt Outpatient Surgery (VOS), Dr. Eric R. Briggs, Medical Director
- Vanderbilt Bone and Joint Surgery Center (VBJSC), Dr. Katherine H. Dobie, Medical Director
- Medical Center East OR, Dr. Stephen T. Harvey, Medical Director

Taking on service lines in new areas isn't the only way the Ambulatory Division continues to grow. In 2015, Cool Springs Surgery Center (CSSC) added an anesthetizing location, as did Vanderbilt Bone and Joint Surgery Center (VBJSC) in 2016. Under Dr. Jane Brock's leadership, CSSC had a record year in 2015 with 8,568 cases. Also in 2015, the division developed a total joint program to begin services for VBJSC's first total shoulder arthroplasty in a free-standing ambulatory surgery center. These patients, who were previously cared for as inpatients at

sponding. We are moving bigger cases and sicker patients out of the hospital and into the leaner ambulatory surgery centers. We are doing it safely, efficiently, and with a top-notch experience for our patients. In our division, over one-third of the patients are ASA 3's; our hospital transfer rates and day of surgery cancellation are at or below benchmark; and our patient experience is one of the leaders in the institution. It's a very exciting time to be innovating in Ambulatory Anesthesiology,” says Dr. Katherine Dobie.

ImPACT update



Dr. Scott Watkins with first class of simulation training graduates in Western Kenya under the GE Foundation/Clinton Global Initiative part of ImPACT Africa program. Dr. Watkins is working with Dr. Newton, Dr. DiMiceli and Dr. McEvoy on training teams of obstetricians, nurse anesthetists and nurses at 9 hospitals. The course provides training on team performance and crisis resource management, with a particular focus on maternal and neonatal safety in the immediate perioperative period surrounding urgent and emergent C-sections.

Departments collaborate to serve in Guatemala



Meghan Hawk, RN

A team of Vanderbilt physicians, nurses and surgical scrub technicians spent six days at The Moore Pediatric Surgery Center in Guatemala City, Guatemala, providing ENT services to 79 children and adolescents. Annually, Vanderbilt, along with five other institutions from the United States, sends two surgical teams to the Moore Center.

“The Department of Anesthesiology is collaborating with the Shalom Foundation and the Moore Center to provide not only surgery and safe anesthesia to children in Guatemala, but also to engage in meaningful, bilateral research and future training of local providers,” states Laura Zeigler, MD, FAAP.

Feeling the Love: Vanderbilt International Anesthesia Dinner Draws a Crowd



Dr. Kelly McQueen and Uyen Tran



Dr. Mark and Brittany Jensen

PHOTOS MICHAEL PILLA, MD



Dr. Matt Kynes and Mark Newton



Dr. Louise Alexander and Dr. Joel Musee's son



The VIA Dinner took place on April 23 at the Loveless Cafe with 168 guests in attendance. A total of \$25,482 was raised to support our department's global impact. Special guests this year included the Southern University Department of Anesthesiology Chairs (SUDAC). VIA seeks to benefit the lives of others by sharing the professional medical skills and knowledge of the faculty, staff and trainees of the Vanderbilt Department of Anesthesiology.

This year's speaker line-up included Kelly McQueen, MD, MPH, Sarah Hemauer, MD, PhD and Joel Musee, MD, PhD.



Dr. Joel Musee



Recent Publications

Báldi R, Ghosh D, **Grueter BA**, Patel S. Electrophysiological Measurement of Cannabinoid-Mediated Synaptic Modulation in Acute Mouse Brain Slices. *Curr Protoc Neurosci*. 2016 Apr 8;75:6.29.1-6.29.19. doi: 10.1002/cpns.8. PubMed PMID: 27063786.

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Billings FT 4th, Hendricks PA, Schildcrout JS, Shi Y, Petracek MR, Byrne JG, Brown NJ. High-Dose Perioperative Atorvastatin and Acute Kidney Injury Following Cardiac Surgery: A Randomized Clinical Trial. *JAMA*. 2016 Mar 1;315(9):877-88. doi: 10.1001/jama.2016.0548. PubMed PMID: 26906014.

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Efird JT, Gudimella P, O'Neal WT, Griffin WF, Landrine H, Kindell LC, Davies SW, Sarpong DE, **O'Neal JB**, Crane P, Nelson MA, Ferguson TB, Chitwood WR, Kypson AP, Anderson EJ. Comparison of Risk of Atrial Fibrillation in Black Versus White Patients After Coronary Artery Bypass Grafting. *Am J Cardiol*. 2016 Apr 1;117(7):1095-100. doi: 10.1016/j.amjcard.2015.12.056. Epub 2016 Jan 15. PubMed PMID: 26857161; PubMed Central PMCID: PMC4799751.

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Gamboa JL, **Billings FT 4th**, Bojanowski MT, Gilliam LA, Yu C, Roshanravan B, Roberts LJ 2nd, Himmelfarb J, Ikizler TA, Brown NJ. Mitochondrial dysfunction and oxidative stress in patients with chronic kidney disease. *Physiol Rep*. 2016 May;4(9). pii: e12780. doi: 10.14814/phy2.12780. PubMed PMID: 27162261.

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Fowler and Deitte awarded inaugural Fellowship to Advance Medical Education (FAME)

Amy Nabours

Ms. Leslie Fowler, MEd, director of education development and research in the Department of Anesthesiology, and Dr. Lori Deitte, MD, vice chair for education in the Department of Radiology, will collaborate as co-principal investigators on the project “Quiz Time: A Smartphone Application to Improve Knowledge Acquisition and Patient Centered Care Delivery.” This cross-departmental project recently received the inaugural Vanderbilt University School of Medicine Faculty Fellowship to Advance Medical Education (FAME). The FAME award consists of \$25,000 per year

for two years to be used by Vanderbilt’s leading medical educators to advance efforts in devising or enhancing innovative educational programs.

The “Quiz Time” project will be led by Fowler and Deitte but will also include co-investigators Amy Robertson, MD, assistant professor and director of medical student education in the Department of Anesthesiology, and Meaghan Magarik, MD, a resident in the Department of Radiology. Matthew McEvoy, MD, vice chair for educational affairs in the Department

of Anesthesiology, will serve as the senior faculty educator. The study intends to determine whether spaced education methods applied via the smartphone application Quiz Time, developed by the Vanderbilt University School of Medicine in conjunction with teams from the Departments of Anesthesiology and Radiology, can improve knowledge acquisition and clinical decision-making processes. The study will be conducted with interprofessional clinicians in the Department of Anesthesiology and the Department of Radiology.

New Hires



Kelly Peters
*Program Assistant,
CRISS*

PREVIOUS POSITION:
Research Assistant,
Behavioral Physi-
ology
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EDUCATION:
BA in English
Literature, Grove City
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Shelby Monahan
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VAPIR*

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Assistant
The Renfrew Center

EDUCATION:
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Sewanee: The
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**Jane Kile, MSN,
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Nurse Practitioner

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Vanderbilt

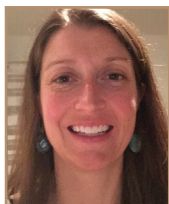
EDUCATION:
MS in Nursing, Family
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(2015)



Samantha Martin
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PREVIOUS POSITION:
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Meghan Dahl
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University Hospital

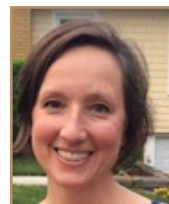
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**Jordan Palmer,
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Erin Leatherwood
CRNA

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Justin Liberman, MD
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Maryann Otto, MD
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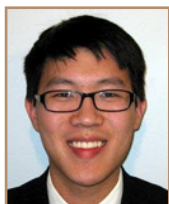
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**Loren Smith, MD,
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BE, Vanderbilt
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Kara Siegrist, MD
*Assistant Professor,
Cardiothoracic
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BS in Biology, Pitts-
burg State University,
Pittsburg, KS (2007)



**Ryan Parker, MD,
PhD**
*Assistant Professor,
Anesthesiology-Crit-
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PREVIOUS POSITION:
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EDUCATION:
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Carolina, Charleston,
SC (2011)
PhD in Physiology
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Medical University
of South Carolina,
Charleston, SC
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New Hires *contd.*



Adam Kingeter, MD
Assistant Professor,
Anesthesiology-
Critical Care
Medicine



Marcos Lopez, MD
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es Center – Houston
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BS in Biology, Texas
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Fort Worth, TX
(2006)

EDUCATION:
MD, Mayo Medical
School, Rochester,
MN (2011)
MS in Clinical and
Translational Science,
Mayo Medical School,
Rochester, MN
(2010)

Society for Pediatric Anesthesia Annual Meeting
Colorado Springs, CO



Suanne Daves, MD, moderated Cardiac Refresher: “The Rhythm is Gonna Get You” as well as facilitated the Workshop: A Practical Approach to Quality Improvement and Performance Management



Stephen Hays, MD, FAAP, spoke at the 3rd Annual Meeting of the Society for Pediatric Pain Medicine (SPPM) in Colorado Springs, CO; the topic was the Pro/Con Debate: Clonidine



Pediatric Anesthesia Fellow Dr. Jacob Hummel presented Task Shifting in Setting of Shortage of First Responders in Mozambique on behalf of Camila Lyon, MD

- OT-127 Successful perioperative ut with a foreign deaf child an Tallouine M, Brockel M, Lip University of Colorado, Aur
- OT-128 Reduction in Blood Transfu Cardiopulmonary Bypass A Machovec K, Einhorn L, Hor Duke University Hospital, D
- OT-129 The African American Race Infants Undergoing Cardiot Kartha V, Harrington B, Ig Johns Hopkins All Children's Hopkins Medicine, St. Peter Petersburg, Florida, USA, Jo
- OT-130 The Hazards of Electronic D Abstraction vs. Manual Cha Snyder D, Whipple A, Leahy Boston Children's Hospital,
- OT-131 Isoflurane Exposure in Neo Context Pre-exposure Faci Ward C, DeYoung T, Barr Children's Hospital of Phila




Jenna Sobey, MD, presented the abstract and poster An Unconventional Approach to Global Pediatric Anesthesia Education

7:00am - 7:45am	MM-173	A Case of postpartum hemorrhage at Children's Hospital
9:45am - 10:00am	MM-180	Management of a child with an acute abdomen
10:00am - 10:15am	MM-187	Management of a child with a urinary tract infection
11:45am - Noon	MM-209	Single Shot vs. Lipid Emulsion for Severe Bacteremia
11:45am - 12:15pm	MM-210	Severe Bacteremia
11:45am - 12:15pm	MM-211	A preliminary and observational study
12:15pm - 12:45pm	MM-245	The use of the vancomycin assay
12:45pm - 1:00pm	MM-257	Interoperative Trauma in Single Center Laparoscopic Surgery
1:00pm - 1:15pm	MM-265	Visual analysis tool for children requires

Saturday, April

7:00am - 7:15am	MM-281	Malignant Hyperthermia: A Review of the Literature
7:15am - 7:30am	MM-293	Anesthesia for Pediatric Anesthesia for Pediatric Anesthesia for Pediatric Anesthesia
7:30am - 7:45am	MM-305	Management of a child with a urinary tract infection
7:45am - 8:00am	MM-317	Clinical Significance of

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Weekly Update

Send ALL department news and announcements to Renuka Christoph by **Tuesday 6:00 pm** for the Wednesday weekly edition.



We are on Twitter. Follow/share us @vanderbilt_anes

Seeking Social Media Help



Interested in joining the Anesthesiology Social Media committee?

The committee will meet **once a month** to:

- Determine content for Twitter
- Gather internal content
- Identify strategies for growth

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DEPARTMENT OF ANESTHESIOLOGY

VANDERBILT UNIVERSITY
 MEDICAL CENTER

Compassionate | Creative | Committed | Collaborative

Department Leadership



Warren S. Sandberg, MD, PhD
Chair, Department of Anesthesiology
Vanderbilt University School of Medicine

We provide uncompromising quality in clinical care, research and education. We are:

Compassionate: Offering exceptional perioperative care and pain management to a complex population.

Creative: Advancing the frontiers of science, healthcare and technology.

Committed: Equipping future leaders with solid education and training, both here and abroad.

Collaborative: Working across Vanderbilt University Medical Center and beyond to achieve measurable outcomes.



Suanne Daves, MD
Vice Chair, Pediatric
Anesthesiology

Chief, Pediatric Cardiac
Anesthesiology



Stephen Doherty, MMHC
Department Administrator



Brian J. Gelfand, MD
Associate Vice Chair
Educational Affairs



Matthew McEvoy, MD
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Mark Rice, MD
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**Andrew Shaw, MB, FRCA,
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