The spring season has arrived, ushering in many of our department's signature events. As you'll see in this issue of the Anesthesia Monitor, the Bradley E. Smith Endowed Lectureship on Medical Professionalism was held in February and featured an excellent lecture on the complexities of clinician certification by Dr. Cynthia Lien. Upcoming events like the fundraiser for the Vanderbilt International Anesthesia (VIA) program, our 13th annual Research Symposium, and the Dr. James Phythyon Endowed Lectureship in Pediatric Anesthesiology showcase some of our department's strengths. These events also serve as reminders of the role of philanthropy in supporting the world-class clinical, education, and research accomplishments of our department. As department chair, I'm thankful for past generosity that has allowed us to establish high quality programs like those I've mentioned, and more.

Anyone can offer financial support for our excellent programs – this support could be in the form of purchasing a ticket and attending the VIA fundraiser at the end of April or in the form of a monetary donation – any form of support provides opportunities for further advancement of our department's mission. Donations can be directed toward a specific program of interest to you, whether it's global health and the VIA, an endowed lectureship like the Phythyon lecture, or a research grant like the B.H. Robbins Scholars program that provides academic mentorship and protected research time to department trainees.

Donors are encouraged to support current endeavors or even to establish a new endowment. Any gift helps us to continue our pursuit of excellence in the areas of global health, research, and trainee education, and ultimately to offer the best in patient care. I welcome you to contact me directly if you're interested in discussing opportunities for charitable giving with the Department of Anesthesiology.

Dr. Bradley E. Smith Endowed Lectureship

This year marks the eighth anniversary of the Dr. Bradley E. Smith Endowed Lectureship on Medical Professionalism. This lectureship was founded to honor Dr. Bradley Smith, chairman of the Department of Anesthesiology for 25 years, 1969-1993.

Dr. Smith and his wife, Mrs. Gretchen Smith, attended the lecture presented by featured speaker, Dr. Cynthia Lien, John P. Kampine Professor and Chair of Anesthesiology at the Medical College of Wisconsin, and the special breakfast that followed. Dr. Lien, who recently completed her term as a director on the American Board of Anesthesiology (ABA), serving as a board member for twelve years and president from 2015 to 2016, spoke on “Certifying the Good Clinician: Challenges, Opportunities, and the Importance for Society.”
On April 29, 2017, the Department of Anesthesiology will host its annual fundraiser for the Vanderbilt International Anesthesia (VIA) program. Funds raised will support VIA’s initiative to allow department faculty, staff, and trainees to provide perioperative patient care in international settings, focusing on teaching local medical professionals already in the field in order to build capacity for safe anesthesia over the long term.

Over the past year, department faculty, residents, fellows, and CRNAs have traveled to participate in research, education, and medical service using resources supplied by the VIA program.

Currently Dr. Kelly McQueen, director of Vanderbilt Anesthesia Global Health & Development, is focused on the long-term pediatric anesthesia and surgery support of the Moore Pediatric Surgery Center in Guatemala. Vanderbilt has been sending teams twice a year for six years to provide surgical service for children in need of dental, urological, orthopedic, and plastic surgery.

The Shalom Foundation, based in Franklin, TN, owns and supports the Moore Center and is now interested in expanding their mission to include research and outcomes analysis. Dr. McQueen is working with them to advance these efforts. Dr. McQueen recently returned to Guatemala to engage local academic centers in supporting these efforts in the future.

Dr. Joel Musee, clinical fellow, made his second visit to Kenya near the end of his residency, where he split his time between AIC Kijabe Hospital and the main referral hospital in Western Kenya, where the IMPACT (Improving Perioperative & Anesthesia Care and Training) Africa program is based.

In Kenya, Dr. Musee encountered many memorable patients, such as a child with uncorrected aortic stenosis, a septuagenarian matriarch with an 8 cm abdominal aortic aneurysm, a young primigravida in her second trimester with a poorly managed seizure disorder who fell into a fire and sustained 40% full thickness burns, and a parturient who was transferred by ambulance from more than three hours away with obstructed labor and uterine rupture who lost her baby (and almost lost her life).

Says Dr. Musee, “The easy part was teaching . . . the students are always so eager and well prepared, so this was quite gratifying.”

In March, CA-3 resident Dr. Louise Alexander returned to AIC Kijabe Hospital in Kenya, where she will spend four weeks teaching Kenyan Registered Nurse Anesthetists (KRNAS) and student KRNAS clinical anesthesia at the bedside, in the classroom, and in the simulation lab. Dr. Alexander previously spent one month at Kijabe, teaching obstetric anesthesia and performing simulation-based education and research on the management of obstetric emergencies.

Since her last visit, high fidelity simulation equipment has been purchased through the ImPACT Africa grant from the GE Foundation and a simulation center has opened at Kijabe. During Dr. Alexander’s current visit, her time will be used to train senior teaching KRNAS to run simulation scenarios and develop simulation curricula and to perform simulation-based education and research on the recognition and management of acute hypoxemia.

CRNAs Stephanie Clark and Jill Moore recently made a trip to Kijabe, Kenya, supported by VIA, where they served as KRNA educators by delivering classroom lectures and by teaching every day in the theatre. Although their time spent in Kenya was short, they believe their visit made an impact on the program because it allowed the KRNA students to affiliate themselves with professionals in their field and thus begin to see themselves as professionals.

Says Stephanie Clark, “We feel honored to have been the first CRNAs to make the commitment to Kijabe . . . and hope this will encourage other CRNAs from Vanderbilt to be a part of the KRNA training in Kijabe in the future!”

The global health contributions of our department are not limited to those supported by VIA, and we are proud to acknowledge the service of department members supported by other organizations and often by their own personal funds.

Dr. Lisa Jaeger and Dr. Jason Lane have been long-term participants in the Pediatric Dental Surgery Mission Trip to the Moore Pediatric Surgery Center in Guatemala, coordinated by the Shalom Foundation, along with other members of our department, medical volunteers from other local organizations, and community volunteers. For this trip, each team member pays his or her own travel expenses and contributes toward the cost of using the surgery center, $10,000.
As part of the dental surgery mission team, Dr. Jaeger and Dr. Lane provide general anesthesia for patients between the ages of 18 months and 18 years who are undergoing major dental surgery. Nashville-area pediatric dentists typically perform procedures on 100 children in four days, using three operating rooms. Some of the patients travel two days by bus and even by foot to receive much needed surgery.

CRNA Mariah Mannion has made multiple international service trips with a local group called More Than Medicine, most recently traveling to Malindi, Kenya, in October 2016, where they operated at Tawfiq Hospital. Four CRNAs and one anesthesiologist provide perioperative care for patients having head and neck cancer surgery.

These visits have evolved into more than just surgical trips. Participants offer education in surgical skills to Kenyan ENT surgeons, and local anesthetists observe the procedures to learn management techniques for more complex cases. On their most recent trip, the team was able to teach the local medical team how to use an ICU ventilator they had received as a donation but were unable to use.

The focus on educating local providers means volunteer participants are helping many more patients than if they were only performing surgical procedures, which makes the missions particularly gratifying. Mariah says, “A favorite thing about this specific trip for me is that it is a beautiful example of a community coming together, without prejudice, to care for patients. A Christian organization helps fund some of the patient care and Kenyan physicians’ travel expenses, while we operate in a private, Muslim hospital, both groups so happy to be working together.”

CRNA Mary Peters recently returned from her fourth medical mission to Nicaragua. She travels with a group called For Nicaraguan Health, which consists of about 80 participants who provide strabismus surgery, orthopedic surgery, cataract surgery, endoscopy, and colonoscopy.

Mary works with a cardiology team and provides anesthesia for people undergoing electrophysiology studies and radiofrequency ablations. The team that she travels with performed the first cardiac ablation in Nicaragua eleven years ago. They have been able to successfully treat several young people who are debilitated by their fast heart rhythms and some who have a potential for sudden death. The cardiologists in the group also teach the local cardiologists, who are now able to perform some ablations independently.
Department Spotlight: Celebrating Departmental Accomplishments

Dr. Louise Alexander, CA-3 resident, was nominated by VUSM students and voted an honorary inductee into the Alpha Omega Alpha Honor Medical Society.

Dr. Brian Allen has been invited to participate in item review and approval by the MOCA Minute Editorial Board.

Betsy DeMarcus has been promoted to Assistant Director of Administration.

Dr. Katherine Dobie has been promoted to Associate Professor of Clinical Anesthesiology.

Jon Dulong completed the Vanderbilt Program in Research Administration Development (VPRAD) in November 2016.

Jon Dulong has assumed the role of Administrative Manager for the Vanderbilt Anesthesiology & Perioperative Informatics Research (VAPIR) Division.

Leslie Fowler, MEd, has been named President-Elect of the Association of Anesthesiology Program Administrators and Educators (AAPAE), a section of the Society of Academic Anesthesiology Associations (SAAA). Leslie played an instrumental role in the creation of this council, designed to foster collaboration among education program administrators in anesthesiology.

Dr. Andrew Franklin has been elected to a two-year term on the steering committee of the Pediatric Regional Anesthesia Network (PRAN).

Christine Goldsberry has accepted a new position as Grants Manager in the Division of Research.

Dr. Alex Hughes has been promoted to Associate Professor of Clinical Anesthesiology.

Jennifer Jayaram has been promoted to the role of Advanced Practice Team Leader for the Perioperative Consult Service. She will work with the physician leaders and Brent Dunworth, as well as the perioperative advanced practice team, to maximize current resources and processes and to plan for future growth of the service lines.

Dr. Jill Kilkelly, has been invited to join the Pediatric Anesthesia Leadership Council (PALC), a section of the Society for Pediatric Anesthesia. The group consists of chairs of Departments of Pediatric Anesthesiology and chiefs of Divisions of Pediatric Anesthesiology. Its purpose is to advance the specialty, providing a forum for leaders in the specialty to collaborate.

Dr. Koffi Kla has been promoted to Associate Professor of Clinical Anesthesiology.

Dr. Avinash Kumar presented “Neurosciences Year in Review” at the Society of Critical Care Medicine (SCCM) conference in Hawaii in January 2017 and gave an invited lecture to the Department of Family Medicine at Meharry Medical School in Nashville. Dr. Kumar is serving on the SCCM’s Neurosciences Steering Committee, Post Graduate Education Committee and the Multidisciplinary Critical Care Knowledge Assessment Program (MCCKAP) Item Writing Committee.

For 2016, the total NIH funding for the Department of Anesthesiology was $5.199 million. Our department ranks 9th in NIH funding among U.S. departments of anesthesiology.
Dr. Jason Lane has been promoted to Associate Professor of Clinical Anesthesiology.

Dr. Jason Lane has been named Secretary for the Association of Anesthesia Clinical Directors (AACD). As secretary, Dr. Lane will serve as program director for the 2018 and 2019 annual meetings.

Kristie Lee completed the Vanderbilt Program in Research Administration Development (VPRAD) in November 2016.

Dr. Amanda Lorinc has been approved as an Associate Member of the Association of University Anesthesiologists (AUA).

Department members Dr. Yin Guo, Dr. Liming Luan, Dr. Naeem Patil, Jingbin Wang, Dr. Julia Bohannon, Dr. Antonio Hernandez, and Dr. Ed Sherwood’s study, “IL-15 Enables Septic Shock by Maintaining NK Cell Integrity and Function,” was featured in the “In This Issue” section of the February 1, 2017 issue of The Journal of Immunology. This section highlights articles considered to be among the top 10% of articles published in the journal.

Mariah Mannion, CRNA, received a “Good Catch Award” at the March 2017 MPMMCIC Conference. Mariah was quick to point out the impact that sugammadex, a new neuromuscular reversal agent, has on patients who are taking oral contraceptive agents. Through this process, our department was able to develop a communication tool for patients who may be impacted.

Karen McCarthy has been named Technical Lead of the Vanderbilt Anesthesiology & Perioperative Informatics Research (VAPIR) Division.

Monroe Carell Jr. Children’s Hospital at Vanderbilt is one of only nine children’s hospitals in the nation, and the only children’s hospital in Tennessee, to be named a Leapfrog Top Hospital for 2016. The selection of Leapfrog’s Top Hospitals is based on the results of the 2016 Leapfrog Hospital Survey, completed by more than 1,800 hospitals annually.

Dr. Edward Sherwood has been invited to serve as associate editor of The Journal of Immunology (The JI). His two-year appointment will begin July 1, 2017.

Dr. Edward Sherwood was appointed to the Basic Science Research Advisory Committee formed by the Vanderbilt University School of Medicine (VUSM).

Dr. Paul St. Jacques has been elected President of the Association of Anesthesia Clinical Directors (AACD).

Katie Tippey, PhD, (CRISS), received the U.S. Department of Transportation Federal Aviation Association Outstanding Student Researcher award.

Dr. Scott Watkins has been named Associate Quality and Patient Safety Director (QPSD).

Dr. Matt Weinger received a secondary appointment as Professor of Civil and Environmental Engineering in October 2016.

Leadership Announcement

Dr. Mark Rice has been named Vice Chair for Clinical Affairs.

Dr. Rice previously served as Associate Vice Chair for Clinical Affairs.

Send us your news for inclusion in department publications: Weekly Update, Anesthesia Monitor AnesthesiologyCommunications@Vanderbilt.edu

Congratulations to our 2017-2018 Chief Residents

Melissa Bellomy, MD  Allison Janda, MD  Phil Leisy, MD
Department Research Featured on Journal Cover
A study conducted by researchers in the Department of Anesthesiology found a clinical information systems protocol, developed by the department’s Vanderbilt Perioperative Information Management Systems (VPIMS) developer group, improved management of blood glucose during the intraoperative period, resulting in reduced instances of hyperglycemia as well as a reduction in surgical site infections in diabetic patients and those with impaired glucose control following surgical procedures.

The study, “A Perioperative Systems Design to Improve Intraoperative Glucose Monitoring Is Associated with a Reduction in Surgical Site Infections in a Diabetic Patient Population,” was published in and featured on the cover of the March 2017 issue of Anesthesiology, with an accompanying infographic created by Dr. Jon Wanderer.

“This particular project has been a very important demonstration of a departmental and personal initiative stretching back at least 15 years: to use electronic health records as an active performance monitoring and process improvement system working in real time to improve patient outcomes,” said Warren Sandberg, MD, PhD, chair of Anesthesiology and senior author on the study.

Children’s Hospital Verified as Level I Pediatric Trauma Center
Monroe Carell Jr. Children’s Hospital at Vanderbilt has received verification from the American College of Surgeons (ACS) as a Level I pediatric trauma center, effective for a period of three years through September of 2019.

To qualify for this verification, the hospital was required to meet 108 essential criteria established by the American College of Surgeons. Successfully meeting these criteria required a strong collaborative effort between surgical, ER, PICU, anesthesiology, radiology, and quality personnel.

There are fewer than fifty verified pediatric trauma centers across the United States, placing the Children’s Hospital in elite company, and Monroe Carell Jr. Children’s Hospital at Vanderbilt serves as the only ACS Level I verified pediatric trauma center within 150 miles. Furthermore, Vanderbilt is the only institution in the state of Tennessee with both the children’s and adult hospitals verified as ACS Level I trauma centers.

During the rigorous verification process, the ACS reviewers specifically identified Dr. Jill Kilkelly (pictured at right), interim chief of the Division of Pediatric Anesthesiology, as a strength of the Monroe Carell Jr. Children’s Hospital at Vanderbilt program.
Department Staff Credo Award Recognition

In 2016, the department instituted a program to recognize, on a quarterly basis, staff members whose behavior exemplifies the characteristics of VUMC’s Credo. Recipients were selected by the staff leadership team from a pool of nominations contributed by department members.

Kelly Peters, senior administrative assistant in CRISS (pictured top right), was the winner of the first Department of Anesthesiology Staff Credo Award, presented at the December 2016 All-Staff Meeting. Kelly was nominated by her supervisor, Callie Hanks, associate program manager in CRISS, for demonstrating the credo behaviors: ‘I am committed to my colleagues’ and ‘I have a sense of ownership.’

The March 2017 Staff Credo Award recipient was Frank Aline, business intelligence analyst in VAPIR (pictured bottom right). Frank received three nominations, one from his staff supervisor, Steve Baker, and one each from faculty members Dr. Jesse Ehrenfeld and Dr. Jon Wanderer. Each nomination lauded Frank’s attitude and work ethic. Specifically, Frank developed a data retrieval procedure used by the VAPIR Division called the Tool Kit and presented a poster on this tool at a recent conference.

Rengel Named B.H. Robbins Scholar

Dr. Kimberly Rengel, currently a CA-2 anesthesiology resident, has been accepted into the department’s B.H. Robbins Scholars program. This program, named in honor of our department’s first chairman, Benjamin Howard Robbins, MD (chair of Anesthesiology, 1946-1961), provides participants with six months of clinician-scientist mentored research time during their residency, followed by a one-year research fellowship with 80% protected research time. Dr. Rengel will also complete a critical care clinical fellowship following residency.

Dr. Rengel’s research interest is in improving functional outcomes in patients recovering from critical illness. In a study of prehabilitation, she will test the hypothesis that cognitive and physical exercises prior to major elective surgery (pre-hab treatment) will lead to an increased likelihood of discharge to home rather than to an institution, decreased hospital re-admission, and improved functional status 3 and 12 months after hospital discharge, compared to active attention control treatment. “We are excited to welcome Dr. Rengel into the program and for her research into postoperative functional outcomes,” says Robbins Co-Director, Josh Billings, MD, MSCI. “These are key metrics for patients.”

Dr. Rengel will be mentored throughout her scholarship period by Dr. Chris Hughes, associate professor, Division of Anesthesiology Critical Care Medicine.
Casey Balthazar
CRNA

**PREVIOUS POSITION:**
RN, Surgical Intensive Care Unit, Bay Medical Center, Panama City, FL

**EDUCATION:**
MS in Nursing (Anesthesiology), Middle Tennessee School of Anesthesia, Madison, TN (2016)
BS in Nursing, Union University, Jackson, TN (2011)

**FUN FACT:**
I am the oldest of 6 and a 4th generation descendant of Thomas Jefferson.

Claudius Balzer, MD
Postdoctoral Research Fellow
Division of Research

**PREVIOUS POSITION:**
Resident, Department of Anesthesia, University of Greifswald, Germany

**EDUCATION:**
MD, Ernst-Moritz-Arndt University, Greifswald, Germany (2012)
MS in Healthcare Management, Ernst-Moritz-Arndt University, Greifswald, Germany (2016)

**FUN FACT:**
I am a German anesthetist doing a research fellowship.

Derwin Campbell
Clinical Trials Associate II
PCRI

**PREVIOUS POSITION:**
Anesthesia Tech, Vanderbilt University Medical Center, Nashville, TN

**EDUCATION:**

**FUN FACT:**
I love sports and am the father of two girls.

Joshua Campbell
CRNA

**PREVIOUS POSITION:**
RN, CVICU, Centennial Medical Center, Nashville, TN

**EDUCATION:**
MS in Nursing (Anesthesiology), Middle Tennessee School of Anesthesia, Madison, TN (2016)
BS in Nursing, University of Tennessee, Knoxville, TN (2010)

**FUN FACT:**
I enjoy playing golf and probably watch too much football.

Jessica Fults
Research Assistant II
Division of Research

**PREVIOUS POSITION:**
Biology Research Assistant, University of Alabama, Tuscaloosa, AL

**EDUCATION:**
BS in Biology, University of Alabama, Tuscaloosa, AL (2016)

**FUN FACT:**
I enjoy rock climbing.

Ramya Ganti
Business Intelligence Analyst
VAPiR

**PREVIOUS POSITION:**
Business Analyst, Deloitte Consulting

**EDUCATION:**
BS in Electronics and Communication Engineering, Osmania University, Hyderabad, India (2014)

**FUN FACT:**
I love traveling and have visited many states in the U.S. in just a span of one year. I can also speak five languages fluently.

Dillon Heath
CRNA

**PREVIOUS POSITION:**
RN, Medical Intensive Care Unit, Vanderbilt University Medical Center, Nashville, TN

**EDUCATION:**
MS in Nursing (Anesthesiology), Middle Tennessee School of Anesthesia, Madison, TN (2016)
BS in Nursing, Middle Tennessee State University, Murfreesboro, TN (2010)

**FUN FACT:**
I have known my wife since kindergarten.
Alan Hendon
CRNA

**PREVIOUS POSITION:**
RN, Trauma Intensive Care Unit, Vanderbilt University Medical Center, Nashville, TN

**EDUCATION:**
MS in Nursing (Anesthesiology), Middle Tennessee School of Anesthesia, Madison, TN (2012)

BS in Nursing, Middle Tennessee State University, Murfreesboro, TN (2008)

**FUN FACT:**
I chose my career path at the age of 16. I knew that I wanted to administer anesthesia after I encountered my first CRNA when I was rushed in for an emergency craniotomy related to a subdural hematoma.

Lorenzo Hughes, MD
Assistant Professor of Clinical Anesthesiology
MSA Division

**PREVIOUS POSITION:**
Acting Director of Pain Management, Assistant Professor of Pain Management and Anesthesiology, NYU Lutheran Medical Center, Brooklyn, NY

**EDUCATION:**
MD, Indiana University Medical Center, Indianapolis, IN (2005)

BS, Indiana University, Bloomington, IN (2000)

**FUN FACT:**
I am known to enjoy a good meal.

Brad Koss
CRNA

**PREVIOUS POSITION:**
CRNA, Mission Hospital

**EDUCATION:**
MS in Nursing (Anesthesiology), Middle Tennessee School of Anesthesia, Madison, TN (2009)

BS in Nursing, Belmont University, Nashville, TN (2005)

BS in Computer Information Systems, Northwestern State University, Natchitoches, LA (1993)

**FUN FACT:**
I lived out one of my dreams by participating in a Braves Fantasy Camp and was fortunate to meet some of my childhood heroes and play alongside and against them.

Matthew Mazaloukas, PhD
Postdoctoral Research Fellow
Division of Research

**PREVIOUS POSITION:**
Postdoctoral Fellow, Department of Pharmacology, Vanderbilt University Medical Center, Nashville, TN

**EDUCATION:**
PhD in Pharmacology, Vanderbilt University, Nashville, TN (2014)

BS in Biophysics and Biology, University of Southern Indiana, Evansville, IN (2004)

**FUN FACT:**
I have several trophies that I earned from chess tournaments that I played in when I was in middle and high school.

Emily McMaster
CRNA

**PREVIOUS POSITION:**
RN, Neuroscience Intensive Care Unit, Emory University Hospital, Atlanta, GA

**EDUCATION:**
MS in Nurse Anesthesia, Medical University of South Carolina, Charleston, SC (2016)

BS in Nursing, Medical University of South Carolina, Charleston, SC (2010)

BA in History, Clemson University, Clemson, SC (2007)

**FUN FACT:**
I speak French.

Sarah Moroz
Research Assistant II
CRISS

**PREVIOUS POSITION:**
Risk Adjustment Specialist, Serenity Care PACE, Brighton, MA

**EDUCATION:**
BS in Psychology, College of the Holy Cross, Worcester, MA (2014)

BA in History, Clemson University, Clemson, SC (2007)

**FUN FACT:**
I am a fluent Russian speaker.

Hunter Peek
CRNA

**PREVIOUS POSITION:**
RN, MSICU, TriStar Centennial Medical Center, Nashville, TN

**EDUCATION:**
BS in Nursing (Anesthesiology), Middle Tennessee School of Anesthesia, Madison, TN (2016)

BS in Nursing, Middle Tennessee State University, Murfreesboro, TN (2008)

**FUN FACT:**
My father, my brother, and I built my parents’ house ourselves.

Krystal Peek
CRNA

**PREVIOUS POSITION:**
RN, Medical Intensive Care Unit, St. Thomas Midtown Hospital, Nashville, TN

**EDUCATION:**
MS in Nursing (Anesthesiology), Middle Tennessee School of Anesthesia, Madison, TN (2016)

BS in Nursing, Lipscomb University, Nashville, TN (2009)

**FUN FACT:**
I am a huge Harry Potter fan.
Recent Publications


Gupta RK, McEvoy MD, Neal JM. Reply to Drs Weisman and Gebhard. Reg Anesth

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GOLD NUMBERS

11


Upchurch CP, Grijalva CG, Russ S, Collins SP, Semler MW, Rice TW, Liu D, Ehrenfeld JM, High K, Barrett TW, McNaughton...


Press Coverage on Opioid Use

Dr. David Edwards appeared in multiple media outlets covering opioid use, including:

Substance Abuse is a Disease, CNN Headline News: On the Story

What the Surgeon General’s Addiction Report Really Means, MedPage Today

MorningLine: Opioid Epidemic, NewsChannel5

Opioids Epidemic: How it Started, How to Battle It (Podcast with Dr. Jenna Walters), The Tennessean

Expert Compares Current Opioid Crisis to Past Tobacco Crisis, The Tennessean, Murfreesboro Daily News Journal, Clarksville Leaf-Chronicle

How Experts Would Change the Opioid Crisis, The Tennessean

Survey Finds Prescription Drug Use Now Eclipses Tobacco Use, DrugRehab.com
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.