

THE ANESTHESIA RECORD

Baylor
College of
Medicine

DEPARTMENT OF ANESTHESIOLOGY
PERIOPERATIVE AND PAIN MEDICINE

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Texas Children's
Hospital®

A MESSAGE FROM THE ANESTHESIOLOGIST-IN-CHIEF:

LOOKING BACK ON AN EVENTFUL 2022 AND AHEAD TO AN EXCITING 2023!

The year 2022 marked a recovery from the worst of the COVID-19 pandemic effects on Texas Children's Hospital and our department. The remarkable accomplishments of our physician and CRNA anesthesiology faculty, as well as our fellows, residents, students and administrative staff are wonderful to see and I wanted to mention a few of them. In calendar year 2022, we performed more than 53,000 anesthetics in 71 locations; just below our all-time record in 2019. With our resurgence of volumes, 2022 was an extremely busy year for both recruiting new faculty for our Houston campuses and for our North Austin Hospital. We have been very fortunate to recruit LyTorre Vidaurri, M.D., MBA, as our new Austin Division Chief; Dr. Vidaurri comes to us from the Children's Health System of Texas, where she has been Chief of Anesthesiology for their Plano Campus and Associate Professor of Anesthesiology at University of Texas Southwestern Medical Center. We welcomed a total of 13 new M.D.s, including three CV anesthesiologists and three CRNAs in 2022. Our department also said goodbye to Toyin Olutoye, M.D., M.Sc., who became Anesthesiologist-in-Chief at Lurie Children's Hospital in Chicago; and saw the retirements of two long-serving faculty, Drs. Wanda Miller-Hance and Helena Karlberg.

The year proved eventful for the department's academic effort as well. We had six faculty promotions, including one CRNA from instructor to assistant professor. The department had 52 peer-reviewed publications and two textbooks published. We created new Departmental Faculty Excellence Awards and awarded our first four recipients. The year also saw change within our leadership positions including Dr. David Young as vice chair for academic affairs and Dr. Farrah Russell as diversity, equity and inclusion committee chair. Finally, because of the renewal of the operating agreement with Baylor College of Medicine; the position of Anesthesiologist-in-Chief was elevated to TCH Hospital Department Chair, recognized by BCM. I now have the privilege of serving on the BCM Academic Council and Dr. Young and I both serve as vice chairs in the BCM Department of Anesthesiology. Another major academic accomplishment was the initiation of our ACGME-certified Pediatric Cardiovascular Fellowship, as the first such program in the U.S., with three outstanding fellows.



Dean B. Andropoulos,
M.D., MHCN

UPCOMING EVENTS

Congenital Cardiac Anesthesia Society Meeting

March 30, 2023
Austin, TX

Society for Pediatric Pain Medicine 10th Annual Meeting

March 30, 2023
Austin, TX

Society for Pediatric Anesthesia Spring Meeting

March 31 – April 2, 2023
Austin, TX

International Anesthesia Research Society Annual Meeting

April 14 – 16, 2023
Denver, CO

Society of Cardiovascular Anesthesiologists 45th Annual Meeting

May 6 – 9, 2023
Portland, OR

Society for Pediatric Anesthesia Fall Meeting

October 13, 2023
San Francisco, CA

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TO NEW BEGINNINGS

By: LyTorre Vidaurri, M.D., MBA, Chief – Austin Anesthesiology



I am excited to be joining Texas Children's Hospital as chief of the new Austin Division.

For the past six years, I have served as Service Chief and Medical Director of Anesthesiology at Children's Medical Center Plano. "Plano," as we commonly call it, is a 72-bed free-standing pediatric hospital in Plano, Texas. This role has afforded me the opportunity to work with physician, nursing and administrative leaders from across the Children's Health system to ensure the safe delivery of anesthesia services as the capabilities of the campus have expanded from a "community hospital" towards a Level II Trauma Center. I had the unique challenge of overseeing quality and safety of the anesthesia department and address concerns of both employed and private surgeons and anesthesiologists as they have surfaced. My role also allowed me to be involved in recruitment and ensuring proper credentialing of faculty, to chair numerous different hospital and perioperative committees, and continue to help manage the OR block schedule.

The role allowed me to be involved in anesthesia policy development, the minutiae of operating-room logistics and value analysis, as well as purchasing to help ensure that safe, efficient, high-quality anesthesia care is reliably delivered to our patients. Being Chief has afforded me the opportunity to participate on a variety of multidisciplinary committees and projects and challenged me to think outside-the-box numerous times; from participating in Root Cause Analysis committee work, quality and patient safety work, to helping to safely expand new high priority programs. Most importantly, it has nurtured my love of exploring new ideas and possibilities.

Children's is continuing to expand the Plano Campus and I have been intimately involved in this process; from architectural design and patient-flow logistics, to FTE need calculations to run the enterprise. In addition, our department was involved in the planning and opening of Live Oak Surgery Center, a combined

pediatric and adult surgery center in Plano, where I also served as the Anesthesia Medical Director. I have taken the same level of commitment to patient care and support of our team in a completely outpatient setting.

To say that the last few years have been full of change would be an understatement. The COVID-19 pandemic has transformed how we practice medicine, travel, spend time with family and educate our children. While demand for medical services has rebounded, we've had to be more agile and open to change and new opportunities than ever before.

One of those new opportunities happened in fall 2022, when I had the opportunity to interview for the new division chief position with Texas Children's Hospital. While I was certainly apprehensive leaving my position and department that I helped grow, it was an exceptional opportunity to help establish a new division at one of the best children's hospitals in the country. I am deeply thankful that I seized the opportunity as it was immediately clear why the reputation of Texas Children's precedes its name and I am honored to be joining the team as Chief of the TCH Austin Division.

As we begin 2023, I am thrilled to work with such a strong team to help plan the new TCH Austin Division. What a fortuitous time to have the 2023 Society for Pediatric Anesthesia (SPA) Annual Meeting in Austin, Texas where I can showcase our campus! I look forward to building a team of world-class pediatric, pediatric cardiac and obstetric anesthesiologists and advanced practice providers who provide high quality, safe, efficient and reliable anesthesia services to our patients. We will aim to uphold the same exemplary standards that TCH maintains across the rest of the system. Together with our surgical, medical and nursing colleagues, I am confident that we will build a hospital that will be a leading healthcare provider to the families of Central Texas.

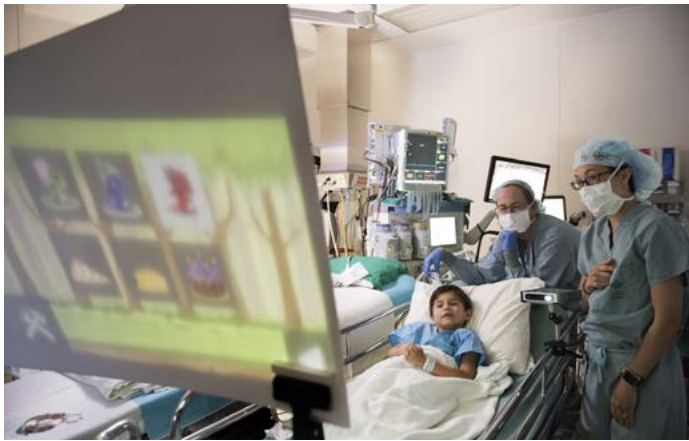
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As we look forward, 2023 promises to be a tremendously exciting year of growth and change, particularly as we prepare for the opening of the North Austin Hospital in early 2024. We will recruit 16 physician anesthesiologists and 12 CRNAs and other anesthesia providers. We are excited to be the major sponsor of the Society for Pediatric Anesthesia-American Academy of Pediatrics Winter Meeting in Austin in late March and will have a major recruitment effort there. Dr. Titi Aina also serves as the Program Chair for that meeting; and our department has multiple presentations and leadership roles at the meeting. In addition, the department sponsored and had a major recruitment presence at the Texas Association of Nurse Anesthetists' Annual Meeting, also in Austin, in January. We will also be onboarding seven new physician anesthesiologists and three new CRNAs in Houston in 2023. We are positioned to perform more than 55,000 anesthetics in 2023, by far the largest number in the U.S. *(continued on page 3)*

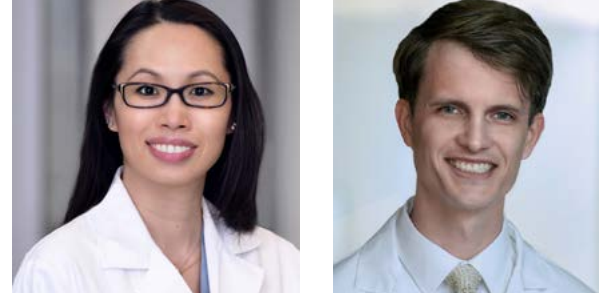
CHARIOT PROGRAM UPDATE

By: Kathleen Chen, M.D., MS and Clinton Fuller, M.D.

In 2018, The Texas Children's Hospital's CHARIOT (Childhood Anxiety Reduction through InnOvation and Technology) program was established with a mere two-person team. We invited Dr. Samuel Rodriguez, the founder and co-director of Lucile Packard Children's Hospital of Stanford's CHARIOT program to give a professorship lecture to our key stakeholders and a live demonstration of what Texas Children's Hospital would look like with a similar program. The overwhelming positive response from patients, families and the perioperative staff has led us to where we are now, a thriving program of our own at TCH. With an early generous donation from the George A. Robinson IV and Starlight Foundations, the program was able to onboard immersive technologies such as projectors and virtual reality headsets throughout the main campus to decrease patient anxiety and improve overall perioperative experience.



In partnership with the Texas Children's Hospital philanthropy team, the CHARIOT team obtained a substantial donation from the Lowery Foundation prior to the COVID-19 pandemic. The expansion of the CHARIOT program with this donation was delayed due to necessary COVID-19 safety precautions. We decided to focus our time and energy to improve operationally. In the fall of 2021, we ordered updated versions of the devices, (which included seven projectors with game consoles and 10 virtual reality



[VR] headsets) with go-live demonstration and training occurring this past year. Devices are available for distraction during prolonged preoperative wait times, placement of awake IVs, distraction during perioperative separation and/or improved experience with inhalational induction of anesthesia. An education curriculum was also created, establishing a documented means to reference information about our immersive technology devices. This curriculum can be easily accessed via a QR code that is attached to all CHARIOT devices. It includes tips for device selection, description of available games and troubleshooting help.

We spent 2022 reinvigorating the program, both perioperatively and beyond. As of today, the TCH CHARIOT program has an 11-member team with the capacity to use a variety of immersive devices in the following preoperative areas at TCH: West Tower, Mark A. Wallace Tower, Legacy Tower and Legacy Tower MRI. These devices can be located in cabinets in the OR and MRI preoperative areas. Please don't hesitate in contacting Drs. Chen, Fuller, or any CHARIOT member, if you have any questions or issues in locating a device or implementing a device for one of your patients.

Outside of the operating rooms and into surgical clinics, the CHARIOT team has continued our collaboration with other services to implement immersive devices throughout the hospital for patient care. Dr. Ongkasuwan's voice clinic is equipped with a CHARIOT projector and a trained super-user for use during their patient's rigid transoral scope airway exams. We also have a new collaboration with pediatric gynecology using VR headsets to help with distraction and improve patient comfort during clinic IUD insertions. After collecting pilot feasibility data, we are now enrolling patients in a randomized controlled trial to study the efficacy of using these devices for this outpatient procedure.

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As I review these tremendous accomplishments and look toward our exciting initiatives, I am so grateful to work alongside every single member of our department. As I work clinically in the Heart Center and visit all of our operating rooms in the West Tower, Mark Wallace Tower, Legacy Tower and West and Woodlands Campuses, I am amazed at your skill, commitment, compassion and excellence as a true team, caring for the largest and most complex caseload in the U.S. Thank you for your hard work and efforts, during the ups and downs of the pandemic, staffing shortages, high caseloads with large case backlogs and many new surgeons, nurses and other perioperative team members. There is simply no better pediatric anesthesiology team in the world and I am so appreciative of your great work. I am looking forward to a great 2023 and am proud to work alongside you as we face the many challenges and opportunities together!

At West Campus, Dr. Henry Huang has utilized our VR headsets during interventional pain procedures to minimize or negate the use of sedatives for chronic pain patients. This has proven to be a useful and very popular option with his patients. Dr. Huang's chronic pain clinic is also now equipped with a Meta Quest 2 virtual reality headset with hand controllers, which will be used for both evaluation and treatment of chronic pain disorders. We are excited about the opportunity for any future, potential collaborations with other services!

Future aims of our program include continued expansion of immersive technology use into the West Tower radiology locations at the main campus and The Woodlands Campus. Soon, you will hear more details about our multicenter simulation study utilizing augmented reality devices (Magic Leap) for trainee simulation education.

The CHARIOT program also has been academically productive; our team members have presented multiple accepted posters and spoken at invited podium talks and workshops at conferences from the local to the international level, (e.g. TSA, SPA, STA, IARS.) We will be speaking at the Immersive Technologies Workshop at the 2023 SPA meeting in Austin. We hope to see you there!

The current success of the program is due to the tremendous support from our hospital leadership, including, Dr. Dean Andropoulos, Anesthesiologist-in-Chief and Dr. Larry Hollier, Surgeon-in-Chief, as well as perioperative and child-life leadership. Our



program would not be possible without the generous support we have received from TCH perioperative leadership and donors. Financial support from George A. Robinson IV and Starlight Foundations allowed for initial device purchases, while further support from the Lowrey Foundation allowed for device upgrades. A recent substantial donation from The Soicher Foundation will allow for further expansion of the program into the community campuses. The CHARIOT team has been working closely with the Texas Children's Hospital philanthropy team to identify potential donors to allow expansion of the scope of our work. We would like to thank TCH leadership and philanthropy for continuing to support our vision and mission. If you would like to make a donation to support the TCH CHARIOT program, please visit texaschildrens.org/supportchariot.



THE FUTURE OF OUR EDUCATIONAL AND PROFESSIONAL DEVELOPMENT ACTIVITIES

By: David Young, M.D., MEd, MBA – Vice Chair of TCH Anesthesiology Academic Affairs



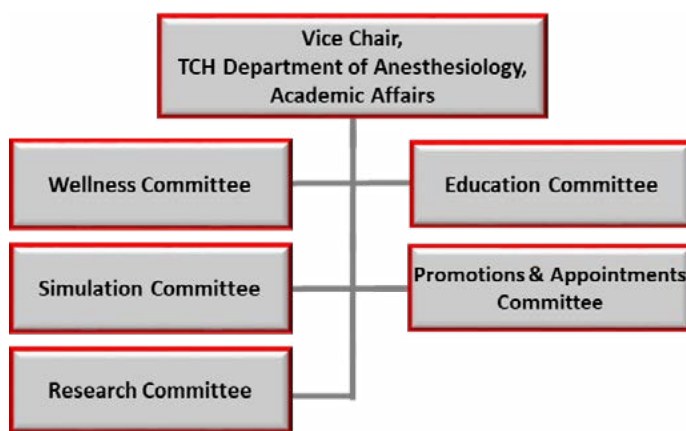
I would like to take this moment to first thank everyone for their overwhelming support in welcoming me into this new role as the Vice-Chair of Academic Affairs! Since many of you have asked, I thought that I would first describe what this role is responsible for, followed by a summary of my relevant past experiences and my thoughts on future educational initiatives.

The Vice-Chair of Academic Affairs at Texas Children's Hospital, Department of Anesthesiology, Perioperative & Pain Medicine reports to the Anesthesiologist-in-Chief (AIC) and provides oversight authority over all aspects of the academic programs of the department while also being a member of the Office of the AIC and the department's executive committee. This oversight includes all divisions and campuses and comprises all educational programs as it relates to all levels of learners, including medical and other non-medical students, residents in anesthesiology and other disciplines, fellows in anesthesiology, faculty and other disciplines. In addition, this includes the department's continuing education efforts relating to attending physicians, CRNA's and other learners. The role is also responsible for oversight of faculty development efforts, including the appointment and promotions processes of the department. In reference to our current departmental organization, many of our standing committees fall under this arrangement including the simulation, wellness, education, research and promotion committees.

In my previous academic roles, I had limited contact with most of the faculty, excluding interactions for clinical related activities. As our department has grown, I feel that many faculty are unfamiliar with my background and past professional experiences along with how these accomplishments can help to effectively support the department in my new role.

I would like to summarize my relevant academic professional experiences for you. I am a professor with tenure at Baylor College of Medicine, who joined BCM and TCH in 2002 after earning my M.D. and completing my anesthesiology residency and pediatric anesthesiology fellowship at the University of Miami/Miami Children's Hospital. I also hold a dual appointment in the BCM Department of Education, Innovation and Technology. My key roles at BCM/TCH include being the current Chair of the Academy of Distinguished Educators, past Co-Chair of the BCM Medical School Admissions Committee, past Vice-Chair for Simulation in the BCM Department of Anesthesiology, member of the BCM Faculty Appointments and Promotions Committee and founder as well as past director of the TCH Pediatric Anesthesia Simulation Program, which offers a nationally endorsed pediatric focused

MOCA Simulation course. I currently serve as the Chair of the Internal Promotions Committee for the TCH Department of Anesthesiology, Perioperative & Pain Medicine and BCM Anesthesiology. Nationally, I am an examiner for the applied examination of the American Board of Anesthesiology, an editor for the ABA basic examination, the Chair of the Society for Pediatric Anesthesia Special Interest Group in Simulation, the Director of the Sedation Simulation Workshops for the Boston Children's Hospital/Harvard Medical School Pediatric Sedation Course and the Chair of the Society for Education in Anesthesia, Faculty Development Committee. I also was the editor-in-chief of the textbook titled, "Handbook of Critical Incidents and Essential Topics in Pediatric Anesthesiology."



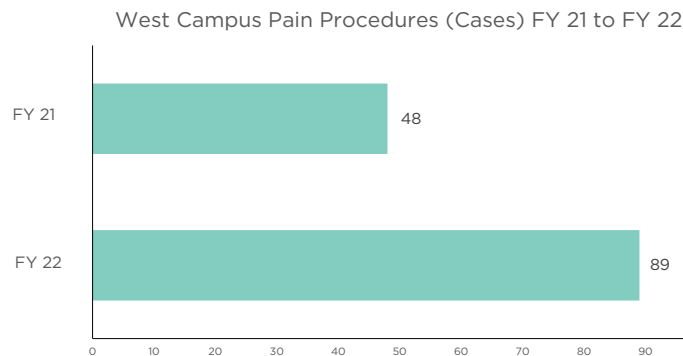
As a planner and organizer, I aim to bring organization and preparation to my new role. My first task is creating an inventory of educational activities and respective leaders in our department, including relevant committees and educational sessions. Next, I plan to meet with each of you regularly to determine program goals, challenges, new initiatives and updates with the goal of dually providing a meaningful educational experience and professional development. Initially, I want to focus on improving the promotions process and departmental awards through informational sessions and longer workshop-based sessions. Ideas for new educational programs include a targeted mentorship program, faculty peer support program and faculty development sessions on basic teaching techniques and fundamental research concepts.

Once again, I'm very much looking forward to serving you and the department with the overall goal to advance our educational footprint and enhance your professional careers. I look forward to working with all of you to expand and improve our academic efforts.

EXPANDING OUR REACH IN PAIN MEDICINE

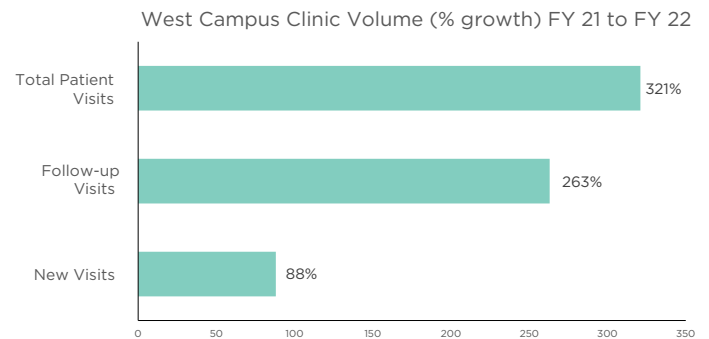
By: Henry Huang, M.D., West Campus Pain Clinic

West Campus Pain Clinic was inaugurated on April 19, 2021, after many hours of collaboration. With the leadership support from the West Campus business administrators and the Department of Anesthesiology, a dedicated West Pain Clinic was assembled to include a registered nurse, a medical assistant and an Ambulatory Services Representative (ASR). Andrew Jones, a chronic pain-focused physical therapist with specialized training in manual therapy, joined the West Campus Pain Clinic as part of the multi-disciplinary team. Dr. Grace Kao, the preferred pain psychologist for the Chronic Pain Clinic at Main Campus, as well as several qualified community psychologists, were able to accommodate an increased patient referral on top of their assigned duties. Different service lines formed close relations, including team members from gastroenterology, hematology, oncology, sports medicine and neurology, as well as perioperative service lines with general surgery, urology, orthopedics, neurosurgery, otorhinolaryngology and interventional radiology. Case-based presentations and fellow conferences with sports medicine, oncology, rheumatology and hematology were provided.



In FY 22, there was an 88% increase in new patient evaluations and a 263% increase in follow-up visits compared to FY 21. In addition, the West Campus Pain Clinic had a 321% increase in multidisciplinary visits, aided by the addition of Karli Kibby, another chronic pain-focused physical therapist. The recruitment of four patients for the weeklong physical therapy program, designed to provide more involved chronic pain-focused physical therapy, highlighted such collaboration. One of the best examples of cross-disciplinary team management was a patient with sickle cell disease on high-dose opioids for chronic pain. She received cutting-edge gene therapy and successfully suppressed her sickle cell disease without crisis post-transplant. We referred her to an appropriate

physical therapist and psychologist, provided intermittent trigger-point injections for short-term pain relief and ultimately achieved an opioid-free pain regimen for her chronic pain. This KPRC-TV story was aired and posted online <https://tinyurl.com/TCHPainFreeTeen>.



In FY 22, the bi-weekly interventional procedural program grew with an 85% increase in total pain interventions, with 17 procedures performed in clinic and 72 procedures performed in the peri-operative environment, including the operating room and the interventional radiology suite. Championed by the TCH CHARIOT Team, virtual-reality assisted injections were performed and a poster was presented at the 2022 American Society of Anesthesiology in New Orleans. We partnered with the U.S. Olympic & Paralympic National Medical Network, led by Dr. Jeff Shilt, Community-in-Chief for Texas Children's Hospital, to perform successful interventional pain injections to three U.S. Olympians and Paralympians. The intrathecal drug delivery system was successfully implanted in two patients, resulting in improved pain control and a higher quality of life in their final two months. Spinal cord stimulation was administered to a patient with chronic, resistant pain from type II complex regional pain syndrome, resulting in a successful trial with no pain and significant functional improvement. The patient is currently scheduled to receive spinal cord stimulation implantation by Dr. Curry in early 2023. Finally, the introduction of radiofrequency ablation therapy provides steroid-sparing pain injection to specific pain foci, such as facet joint pain, resulting in prolonged pain relief. So far, four patients have undergone successful ablative therapy for their facet joint pain with a minimum of three months of pain reduction.

The future of the West Campus Pain Clinic is exciting. First, we will welcome Dr. Gina Rhodes, a pain psychologist from Cleveland Clinic, to



transform patient care into an inter-disciplinary fashion starting in May 2023. The weeklong physical therapy program, led by Karli Kibby, will continue to provide high-quality treatment to those that failed traditional physical therapy. Virtual reality-guided pain procedures and physical therapy, assisted by the TCH CHARIOT Team, will be employed to provide next-century multidisciplinary pain management. The interventional pain program will continue to expand advanced pain techniques with a one-year plan to roll out the radiofrequency ablation program for back pain management, and provide education in the national forum, most recently in the ultrasound guided interventional pain workshops led by Dr. Suleman from The John Hopkins Hospital. Through the guidance of Drs. Dean Andropoulos, Chris Glover, and Priscilla Garcia, national recognition was gained through a recent *USA Today* article by Karen Weintraub, titled “America’s children are in pain, too. But they shouldn’t be treated as little adults.” (<https://tinyurl.com/childreninpaintoo>).



Lots of work lies ahead, but the West Campus Pain Clinic aims to become a national center for pediatric multidisciplinary pain management.

AN UPDATE FROM OUR CRNA TEAM

By: Martha A Vera, DNP, CRNA, Director - CRNAs

Few aspects of our lives have remained untouched over these last several years by the pandemic and what the future holds is always uncertain. However, with new growth comes new opportunity and I am confident that the future for CRNAs at TCH will be brighter than ever. Despite the many challenges faced by our cohort, our team of CRNAs have remained a constant partner in providing high-quality care for the children, women and adults with congenital heart disease we all serve.

Not only has this resilient group of highly skilled practitioners taken on additional clinical time to ensure that our patients continue to have access to the care they need, but they also do this while continuing to advance the academic mission we have been charged with. They willingly share of their own talents and regularly mentor SRNAs and current TCH RNs who are interested in joining our profession. The CV CRNAs have led and hosted a simulated learning experience for recovery room nursing staff for the last few years. Many members present and contribute to the advancement of our profession at the state and national level in both formal and informal leadership roles. CRNAs are also contributors to departmental and hospital-based committees, giving voice

to our specific role within the anesthesia care team. Additionally, we regularly liaison and seek opportunities to partner with our physician colleagues for clinical and academic efforts.

We have a goldmine of clinical expertise and ability within this group. My vision for the future is to fully tap into and utilize the talents of our team to expand the care we provide as CRNAs remain integral to the success of our department.



Our CRNA Team participated in photo shoots that captured the breadth of their service and dedication to our patients and families. In early 2023, team members attended the TxANA conference to launch their Austin recruitment effort.

PROMOTIONS

Matthew James, M.D., was promoted from Assistant Professor (non-tenured) to Associate Professor (non-tenured) in the Department of Anesthesiology, Perioperative & Pain Medicine.

David Mann, M.D., DBe, HEC-C, was promoted from Associate Professor (non-tenured) to Professor (non-tenured) in the Department of Anesthesiology, Perioperative & Pain Medicine.

Nihar Patel, M.D., was promoted from Associate Professor (non-tenured) to Professor (non-tenured) in the Department of Anesthesiology, Perioperative & Pain Medicine.

Vanessa Paul, DNP, CRNA, was promoted from Instructor (non-tenured) to Assistant Professor (non-tenured) in the Department of Anesthesiology, Perioperative & Pain Medicine.

Kale Wayman, M.D., was promoted from Assistant Professor (non-tenured) to Associate Professor (non-tenured) in the Department of Anesthesiology, Perioperative & Pain Medicine.

Karla Wyatt, M.D., MS, FAAP, was promoted from Assistant Professor (non-tenured) to Associate Professor (non-tenured) in the Department of Anesthesiology, Perioperative & Pain Medicine.

INSTITUTIONAL AWARDS

Titilopemi A. O. Aina, M.D., MPH, FAAP, FASA, received the Norton Rose Fulbright Faculty Excellence Award for Teaching & Evaluation, Baylor College of Medicine.

Adam C. Adler, M.D., MS, received the Norton Rose Fulbright Faculty Excellence Award for Development of Enduring Educational Materials, Baylor College of Medicine.

Lisa A. Caplan, M.D., received the Star Faculty Award for Excellence in Patient Care, Baylor College of Medicine.

Arvind Chandrakantan, M.D., MBA, FAAP, received the Norton Rose Fulbright Faculty Excellence Award for Development of Enduring Educational Materials, Baylor College of Medicine.

Arvind Chandrakantan, M.D., MBA, FAAP, received the Norton Rose Fulbright Faculty Excellence Award for Teaching & Evaluation, Baylor College of Medicine.

Julia H. Chen, M.D., received the Norton Rose Fulbright Faculty Excellence Award for Development of Enduring Educational Materials, Baylor College of Medicine.

Chris D. Glover, M.D., MBA, received the Norton Rose Fulbright Faculty Excellence Award for Teaching & Evaluation, Baylor College of Medicine.

Lisa D. Heyden, M.D., received the Star Faculty Award for Excellence in Patient Care, Baylor College of Medicine.

Matthew D. James, M.D., received the Star Faculty Award for Excellence in Patient Care, Baylor College of Medicine.

Megha K. Kanjia, M.D., received the Norton Rose Fulbright Faculty Excellence Award for Teaching & Evaluation, Baylor College of Medicine.

David Mann, M.D., DBe, HEC-C, received the Norton Rose Fulbright Faculty Excellence Award for Development of Enduring Educational Materials, Baylor College of Medicine.

Premal Trivedi, M.D., received the Norton Rose Fulbright Faculty Excellence Award for Teaching & Evaluation, Baylor College of Medicine.

William B. Waldrop, M.D., received the Norton Rose Fulbright Faculty Excellence Award for Educational Leadership, Baylor College of Medicine.

Kenneth Wayman, M.D., received the Norton Rose Fulbright Faculty Excellence Award for Teaching & Evaluation, Baylor College of Medicine.

DEPARTMENTAL AWARDS

Dheeraj Ahuja, M.D., received the Faculty Excellence Award for Clinical Initiatives, Texas Children's Hospital, Department of Anesthesiology, Perioperative & Pain Medicine.

Carlos Campos, M.D., received the Faculty Excellence Award for Mentorship, Texas Children's Hospital, Department of Anesthesiology, Perioperative & Pain Medicine.

Tamar Elattary, M.D., received the Outstanding Fellow Education in Pediatric Pain and Regional Medicine Award, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

Melanie Handley, M.D., received the Faculty Excellence Award for Clinical Care, Texas Children's Hospital, Department of Anesthesiology, Perioperative & Pain Medicine.

Clinton L. Fuller, M.D., received the Golden Apple Award for Anesthesiology Resident Education, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

Lauren Lobaugh, M.D., received the Faculty Excellence Award for Clinical Initiatives, Texas Children's Hospital, Department of Anesthesiology, Perioperative & Pain Medicine.

Steve Stayer, M.D., received the Rising Star Award for Anesthesiology Resident and Fellowship Education, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

Premal Trivedi, M.D., received the Teacher of a Broken Heart Award for Fellow Education in Pediatric Cardiovascular Anesthesiology, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

David Bluhm, M.D., received the Outstanding Performance Cardiac Anesthesiology - Pediatric Anesthesiology Fellow Award, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

David Bluhm, M.D., received the Outstanding Performance in NORA - Pediatric Anesthesiology Fellow Award, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

Rebbeka Keillor, M.D., received the Lewis Coveler Award for Outstanding Performance in Pediatric Anesthesiology Fellowship, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

Rebbeka Keillor, M.D., received the Outstanding Performance on Community Elective - Pediatric Anesthesiology Fellow Award, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

Rebbeka Keillor, M.D., received the Outstanding Performance in Regional Anesthesiology Award, Pediatric Anesthesiology Fellow Award, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

Mariana Montes, M.D., received the Outstanding Performance in Surgical Intensive Care - Pediatric Anesthesiology Fellow Award, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

Mariana Montes, M.D., received the Outstanding Performance in Pain Medicine - Pediatric Anesthesiology Fellow Award, Baylor College of Medicine, Department of Anesthesiology, Fellowship and Residency Program.

ADDITIONAL DEPARTMENT RECOGNITIONS

The Department named several new physician leadership positions in 2022: **David Young, M.D., MEd, MBA**, was named the vice chair for academic affairs. **LyTorre Vidaurri, M.D.**, will join the department as the new Austin Division chief in early 2023. **Titilopemi Aina, M.D., MPH**, was named director, pediatric anesthesiology fellowship beginning with the class of 2022-23. In addition, three new service directors were announced: **Clint Fuller, M.D.** as the regional anesthesiology director, **Shazia Mohammad, M.D.** as the craniofacial service director and **Farrah Russell, M.D.** as the spine service director. In addition to her new service director position, **Farrah Russell, M.D.** was also named the committee chair for the committee on diversity, equity and inclusion (CDEI) in summer 2022.

The department was also excited to welcome **Kimberley DuBose-Newton** as the new administrator for the Department of Anesthesiology, Perioperative & Pain Medicine. Kimberley joined the team in July after 19 years at Houston Methodist Hospital working in various areas, with the last nine years focusing on the system emergency services area. We are thrilled to have her as a part of the anesthesiology family!

Michael Pickett, MSN, APRN, CPNP, Nurse Practitioner in CV and General Anesthesiology received 2 high honors in 2022. Michael is a brilliant inventor of a number of devices that facilitate education, training, and patient care in nursing and medicine. He was honored by the Houston Chronicle Salute to Nurses as one of the top 150 Nurses in the

Houston Metro Area for his inventions. He is also one of the winners of the American Nurses Association 2022 Team Innovation Awards. Michael led the team that developed wearable simulation trainers for IV placement, and access and care of central lines and implanted ports. Michael has exemplified the best of Texas Children's Hospital creativity, innovation, problem solving, and contributions to nursing and medical education and training

The Acute Pain Service Team was awarded the team costume award (for the 2nd year running!) for their Sesame Street theme in the TCH Halloween costume contest. This tradition is so fun for the team and brings so much joy to the patients across our hospital! A special thank you to all of this year's participants: **Susan Ersig, NP** (Big Bird), **Jack Parish, M.D.** (Elmo), **Devin McGaughey, NP** (Cookie Monster) and **MacKenzi Green, M.D.** (Oscar the Grouch).



Congratulations to **Olutoyin Olutoye, M.D., MSc, FAAP** on being named the new anesthesiologist-in-chief and the Arthur C. King Professor & Chair of the Department of Anesthesiology, Lurie Children's Hospital of Chicago and professor of anesthesiology, Northwestern University, Feinberg School of Medicine, Chicago. We will miss Dr. Olutoye greatly but look forward to future collaborations. The department celebrated her service with a reception prior to her departure in October.



Congratulations to **Drs. Karlberg and Miller-Hance** on their retirements! Wanda Miller-Hance, M.D. served in the Arthur S. Keats, M.D., Division of Pediatric Cardiovascular Anesthesiology for more than 20 years before her retirement in late June. Helena Karlberg, M.D. served this department and institution for more than 30 years before retiring in August. The department held receptions for both physicians prior their departures. They will both be missed and we wish them success in their future endeavors!

2022 NEW FACULTY

Ashley Bumatay, DNP, CRNA, Instructor received her Certified Nursing Assistant (CNA) Certification at Park Manor Nursing Home in Tomball, Texas in February 2011. She received her Associates of Science Degree with Honors at Lone Star College – Montgomery, in Conroe, TX in December 2012. Ms. Bumatay continued her education at The University of Texas Health Science Center at Houston Cizik School of Nursing in Houston, TX, where she received her Bachelor of Science in Nursing Degree in May 2014. Next, she continued her education at Texas Christian University Harris College of Nursing and Health Services School of Nurse Anesthesia where she received her Doctor of Nursing Practice – Anesthesia degree in December 2021.



Musa Bilal, M.D., Assistant Professor is a pediatric cardiovascular anesthesiologist. Dr. Bilal received his Bachelor of Science in Biomedical Engineering at University of Connecticut, in Storrs, CT in May 2012. He received his M.D. at Ross University School of Medicine in Barbados in May 2016. Dr. Bilal completed an Internship in the Department of Surgery at SUNY Upstate, Syracuse, NY in June 2017. His Anesthesiology Residency training was completed at SUNY Upstate, Syracuse, NY and was a Chief Resident from 2019 – 2020 and concluded residency in June 2020. He pursued his Pediatric Anesthesiology Fellowship, where he was a Chief Fellow, at UPMC Children's Hospital of Pittsburgh, in Pittsburgh, PA in July 2021. Dr. Bilal continued with Pediatric Cardiac Anesthesiology Fellowship at Lucile Packard Children's Hospital, Stanford Medicine, Stanford, CA in July 2021. Dr. Bilal joined our team in September 2022.



Angela B. Chen, M.D., Assistant Professor received her Bachelor of Sciences, Microbiology, *summa cum laude*, at University of Texas at Austin in May 2011. She then received her M.D. at McGovern Medical School at the University of Texas Health Science Center at Houston in May 2015. She completed her Anesthesiology Residency at McGovern Medical School at the University of Texas Health Science Center at Houston in June 2019. Dr. Chen completed Pediatric Anesthesiology Fellowship at McGovern Medical School at the University of Texas Health Science Center at Houston, in July 2020. She was appointed as Assistant Professor at University of Texas Medical Branch, Houston, Texas from 2020 – 2022. Dr. Chen joined our department in October 2022.



Erin Depew, MSN, CRNA, Instructor attended Baylor University in Waco, TX and graduated with her Bachelor of Science in Nursing in 2007. She continued her education at University of Pennsylvania, Philadelphia where she received her Master of Science in Nursing, Nurse Anesthesia in 2011. Ms. Depew worked with our department from 2011–2019. She explored new opportunities at U.S. Anesthesia Partners from 2019 until returning to Pediatric Anesthesiology, Perioperative & Pain Medicine here at Baylor College of Medicine, Texas Children's Hospital in May 2022. We are thrilled to have her back on our team.



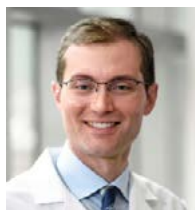
Renee D. Doherty, M.D., Assistant Professor studied at The University of Alabama, in Tuscaloosa where she received her Bachelor of Biological Science Degree in 2004 and her Master of Science in Molecular Biology in 2008. Dr. Doherty received her M.D. from The University of Alabama School of Medicine in Birmingham in 2012. Her residency training includes General Surgery Residency at Inova Fairfax Hospital in Fairfax, VA from 2012–2015 and Anesthesia Residency training at UT Southwestern Medical Center in Dallas from 2016–2019. Dr. Doherty then completed a Pediatric Anesthesiology Fellowship at Washington University in St. Louis in 2020. Prior to joining our department in October 2022, she held the title of Pediatric Anesthesiologist at Marshfield Medical Center in Marshfield, WI.



Jessica S. Dominic, M.D., Assistant Professor received her Bachelor of Science in Neurobiology with Honors at University of Texas, Austin in June 2012. She then received her M.D. at University of Texas Medical Branch, Galveston in June 2016. Dr. Dominic completed her Anesthesiology Residency at The University of Michigan, Ann Arbor in July 2020. She completed her Pediatric Anesthesiology Fellowship at Washington University/St. Louis Children's Hospital, St. Louis, MO in July 2021 and was then appointed as Clinical Instructor in the Division of Pediatric Anesthesiology. Dr. Dominic joined our department in October 2022.



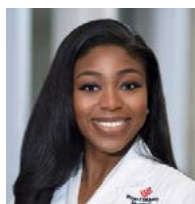
2022 NEW FACULTY



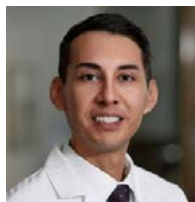
Richard Hubbard, M.D., Assistant Professor is a pediatric cardiovascular anesthesiologist. Dr. Hubbard received his Bachelor of Arts in May 2009 at The University of the South in Sewanee, TN. He received his MD from Virginia Commonwealth University School of Medicine, Richmond, in May 2013. He completed an Internship in the Transitional Year Program at University of Pittsburgh Medical Center in June 2014. Dr. Hubbard completed his Anesthesiology Residency training at the University of Pittsburgh in June 2017. Dr. Hubbard's Pediatric Anesthesiology Fellowship training was completed at Nationwide Children's Hospital, Columbus, OH in June 2018. Dr. Hubbard completed his Pediatric Cardiac Anesthesiology Fellowship in at Nationwide Children's Hospital, Columbus, OH in December 2018. Previous to joining our team in June 2022, he held an Assistant Professor faculty appointment in the Subdivision of Pediatric Cardiovascular Anesthesiology at University of Texas Health Science Center, Houston.



Haley G. Hutting, M.D., Assistant Professor is a pediatric anesthesiologist. She received her Bachelor of Arts in Biology Washington University in Saint Louis, Missouri in 2001. Dr. Hutting received her Doctor of Medicine Degree at University of Texas Southwestern Medical School at Dallas in 2005. She then perused an Internship and Residency in the Department of Surgery, Categorical General Surgery at the University of Colorado Denver from 2005-2007. Dr. Hutting completed an Anesthesiology Research Fellowship at University of Colorado Denver in 2008 and an Anesthesiology Residency in 2011. Dr. Hutting completed Pediatric Anesthesiology Fellowship at Children's Hospital of Colorado, University of Colorado Denver, Aurora, CO in 2012. Dr. Hutting was appointed Assistant Professor at Children's Hospital Colorado, University of Colorado from 2012-2015. In 2015 she joined the Pediatric Division at Tejas Anesthesia in San Antonio. She joined our faculty team in November 2022.



Ololade O. Ogundele, M.D., Assistant Professor received her Bachelor of Science in Psychology with Honors at Brown University, Providence, RI in May 2011. She received her MD at Howard University College of Medicine in Washington, DC, in May 2017. Dr. Ogundele completed an Internship in Internal Medicine at University of Nevada, Reno School of Medicine in Reno in June 2018. Next she completed an Anesthesiology Residency at University of Maryland Medical Center in Baltimore, MD in June 2021. Dr. Ogundele completed a Pediatric Anesthesiology Fellowship at Baylor College of Medicine, Texas Children's Hospital, Houston in August 2022. She joined our faculty team in October 2022.



Nicholas Rojas, M.D., Assistant Professor is a pediatric anesthesiologist and received his Bachelor of Science Degree in Biomedical Sciences at Texas A&M University-Corpus Christi, Corpus Christi, TX in 2012. He received his Medical Doctor Degree at University of Texas School of Medicine at San Antonio, Long School of Medicine, San Antonio in 2016. Dr. Rojas completed his Anesthesiology Residency at University of Texas Medical Branch in Galveston, TX in 2020. His Pediatric Anesthesiology Fellowship was completed at Baylor College of Medicine, Texas Children's Hospital in 2021. Prior to joining our team in August 2022, Dr. Rojas was an Adjunct Assistant Professor at Department of Anesthesiology, University of Texas Health Science Center San Antonio, San Antonio, TX.



Farrah Russell, M.D., Assistant Professor is a pediatric anesthesiologist and received her Bachelor of Arts degree at Dartmouth College in Hanover, NH in 1999. She attended SUNY Upstate Medical University in Syracuse, NY where she received her Medical Doctor Degree in 2005. After 2 years of Surgical Residency training at SUNY Upstate Medical University in Syracuse, NY from 2005-2007, she completed Anesthesiology Residency at Tufts Medical University, St. Elizabeth Medical Center, Boston, MA from 2008-2011. Dr. Russell then completed her Pediatric Anesthesiology Fellowship at Children's National Medical Center, Washington, D.C., in 2012. She joined our Department in April of 2022 and brought with her a wealth of experience from multiple practice settings, including a hybrid academic position at Children's Hospital of Alabama as well as private practice with United States Anesthesia Partners (USAP). Since joining our team in April 2022, she has been named the Director of Spine Service and Chair of the Committee on Diversity, Equity, and Inclusion.

2022 NEW FACULTY

Juli Stiffler, DNP, CRNA, Instructor completed her undergraduate education with a Bachelor of Science in Sociology Degree at Texas A&M University, College Station, TX, in December 2011. She then attended University of Texas Health Science Center at San Antonio, San Antonio, TX where she received her Bachelor of Science in Nursing in August 2014. Ms. Stiffler continued her education at Texas Christian University in Fort Worth, TX and received her Doctorate Nurse Practitioner-Anesthesia in December 2021.



Előd Szabó, M.D., Ph.D., FRCPC, Assistant Professor received his Medical Degree at A. Szent-Györgyi Medical University, Szeged, Hungary in August 1995. He received his Ph.D., Molecular and Cellular Properties of the Human Brain Na⁺/H⁺ Exchanger Isoform 5, in the Department of Physiology, McGill University, Montréal, Québec, Canada, Supervisor: Dr John Orłowski, in April 2002. Dr. Szabó completed an Internship in Internal Medicine in the Department of Anesthesiology, Medical College of Wisconsin, Milwaukee in June 2003. He then completed Anesthesiology Residency training in the Department of Anesthesiology, Medical College of Wisconsin in Milwaukee, Wisconsin in June 2006. He then pursued his Fellowship in Paediatric Anaesthesia, Department of Anesthesia and Pain Medicine, The Hospital for Sick Children, in Toronto, Ontario, Canada in June 2007. Dr. Szabó continued with completing a Fellowship in Paediatric Critical Care Medicine, Division of Critical Care Medicine, Department of Paediatrics, The Hospital for Sick Children, in Toronto, Ontario, Canada, in August 2008. Previous to joining our department in November 2022, Dr. Szabó was appointed as an Assistant Professor in the Department of Anesthesia, University of Toronto and Staff Anesthetist in the Division of Cardiac Anesthesia, Department of Anesthesia and Pain Medicine at The Hospital for Sick Children in Toronto, Ontario, Canada.



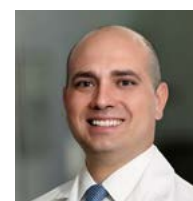
LyTorre Vidaurri, M.D., MBA, Senior Faculty, Pediatric Anesthesiologist completed her Bachelor of Science in Professional Microbiology at The University of Oklahoma in Normal, OK in May 2011. She continued her education at Rush Medical College in Chicago where she received her Doctor of Medicine in June 2005. Dr. Vidaurri completed an Internship and Anesthesiology Residency at The University of Texas Southwestern, in the Department of Anesthesiology & Pain Management in Dallas (4-Year Anesthesiology Categorical), from 2005–09. She completed her Pediatric Anesthesiology Fellowship at The University of Texas Southwestern Medical Center/Children's Medical Center Dallas from 2009–10. Dr. Vidaurri received her Master of Business Administration at The University of Texas at Dallas in Richardson, TX in 2014. Dr. Vidaurri offers years of pediatric anesthesiologists experience at The University of Texas Southwestern, Dallas, Texas and Children's Health System in Dallas and experience as a Service Chief of Anesthesiology at Children's Health Plano Campus. Dr. Vidaurri is named the Chief of Anesthesiology at the Texas Children's Hospital, Austin Campus. We are looking forward to her leadership as we extend anesthesia services to Austin.



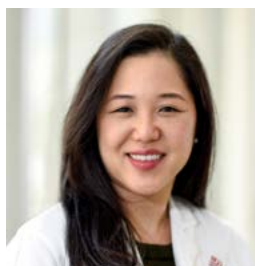
Queenie Wilkins, M.D., Assistant Professor, Pediatric Anesthesiologist attended The University of Texas at Tyler and graduated with a Bachelor of Science in Biology in May 2005. She continued her education at The University of Texas Medical Branch in Galveston, TX and received her Doctorate of Medicine in June 2010. Dr. Wilkins completed her Anesthesiology Residency training at The University of Texas Southwestern Medical Center in Dallas in June 2014. She followed with her Pediatric Anesthesiology Fellowship training here at Baylor College of Medicine, Texas Children's Hospital and graduated in June 2015. Dr. Wilkins joins us from The University of Texas Medical Branch, Galveston, TX.



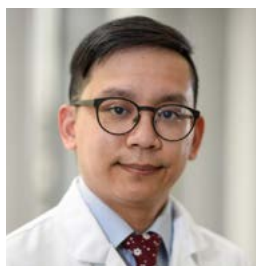
Oscar D. Zamorano, D.O., MS, Assistant Professor received his Bachelor of Science in Anthropology at The University of California, Los Angeles in 2009 and a Master of Science in Medical Science at University of North Texas Science Center, Graduate School of Biomedical Science in Fort Worth, TX in 2013. He continued his education at Lincoln Memorial University, Debusk College of Osteopathic Medicine, in Harrogate, TN and received a Doctor of Osteopathic Medicine degree in 2017. He completed his Anesthesiology Residency at Saint Louis University School of Medicine, Department of Anesthesiology and Critical Care Medicine, in St. Louis, MO in 2021. He completed a Pediatric Anesthesiology Fellowship at University of Texas Health Science Center at Houston, Memorial Hermann Children's Hospital, Department of Anesthesiology, Houston in 2022 then joined our team in August.



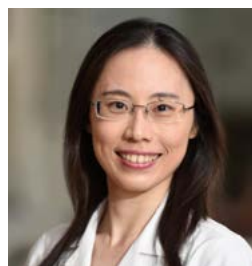
2022-23 PEDIATRIC ANESTHESIOLOGY FELLOWSHIP



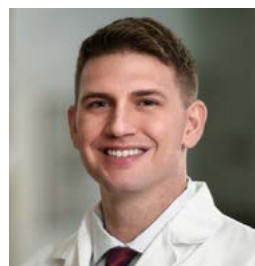
Stephanie Ahn, M.D.
McGovern Medical School



Paul Bui, M.D.
Baylor College of Medicine



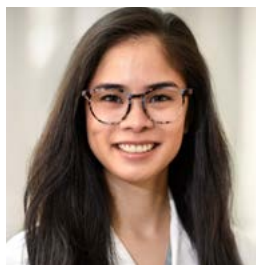
Jennifer Chien, M.D.
UPenn Health Systems



Jordan Ernst, M.D.
Baylor College of Medicine



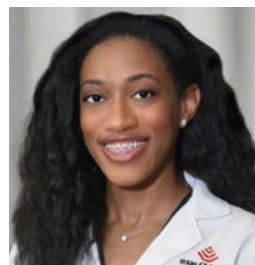
Hussam Ghabra, M.D.
Oschner Clinic Foundation



Michelle Nguyen, M.D.
UT Southwestern
Medical Center

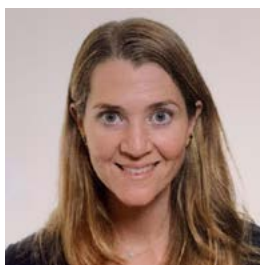


Jack Parish, M.D.
Baylor College of Medicine

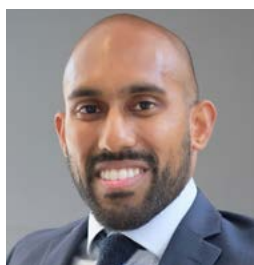


Amber Quintana, M.D.
McGovern Medical School

2022-23 PEDIATRIC CARDIOVASCULAR ANESTHESIOLOGY FELLOWSHIP



Montserrat Fontanals, M.D.
The Hospital for Sick Children



Manoj Sekar, M.D.
Baylor College of Medicine



Liam Sullivan, M.D.
Boston Children's Hospital

The Department of Anesthesiology, Perioperative & Pain Medicine celebrated the 2021-2022 graduating fellows at a dinner on Friday, June 10, 2022 at the Omni Hotel. The Department sincerely wishes its graduates the very best on their future endeavors.



TEXTBOOK

Cristiani, Federico, **Motta, Pablo** (Editor) (2022). Anestesia Pediátrica. BiblioMedica.

Faculty Contributors: Andrés Bacigalupo Landa, Carlos Campos, Wanda Miller-Hance, Miguel Prada, Laura Torres

PEER-REVIEWED PUBLICATIONS

Nicoara A, Song P, Bollen BA, Paone G, Abernathy JJ 3rd, Taylor MA, Habib RH, Del Rio JM, Lauer RE, Nussmeier NA, Glance LG, Petty JV 3rd, Mackensen GB, **Vener DF**, Kertai MD. The Society of Thoracic Surgeons Adult Cardiac Surgery Database: 2021 Update on Echocardiography. *Ann Thorac Surg.* 2022 Jan;113(1):13-24. doi: 10.1016/j.athoracsur.2021.09.001. PMID: 34536378.

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Bergen AH, Overman D, Eghtesady P, Butts R, Kim JS, Scott JP, Anderson BR, Swartz MF, McConnell PI, **Vener DF**, Li JS; STRESS Network Investigators. Methylprednisolone for Heart Surgery in Infants - A Randomized, Controlled Trial. *N Engl J Med*. 2022 Dec 8;387(23):2138-2149. doi: 10.1056/NEJMoa2212667. PMID: 36342116.

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PRESENTATIONS

Adler AC. Anesthesia and Neurodevelopment: What I Need to Know! NWAS, Remote, Texas, USA, May 3, 2022.

Adler AC. Anesthesia and Neurodevelopment: What I Need to Know! NWAS, Marco I, Florida, USA, June 28, 2022.

Adler AC. Caudal Blocks and Kids: What You Need to Know! NWAS, Marco I, Florida, USA, June 30, 2022.

Adler AC. Help This Kid Showed Up with a Ventricular Assist Device, What Do I Do? NWAS, Marci I, Florida, USA, June 30, 2022.

Adler AC. Non cardiac surgery for the adult congenital heart patient. NWAS, Remote, Texas, USA, May 3, 2022.

Adler AC. OSA and Pediatric Anesthesia: From Diagnosis to Discharge. NWAS, Marco I, Florida, USA, June 27, 2022.

Adler AC. PBLD: Mediastinal Masses in Children: What Do I Do? NWAS, Marco I, Florida, USA, June 28, 2022.

Adler AC. Point-of-Care Ultrasound for the Anesthesia Provider. NWAS, Marco I, Florida, USA, June 29, 2022.

Adler AC. Preparing Children for the Operating Room: What Are the Current Practices? NWAS remote, Remote, Texas, USA, May 2, 2022.

Adler AC. Preparing Children for the Operating Room: What Are the Current Practices? NWAS, Marco I, Florida, USA, June 27, 2022.

Adler AC. Review of Pediatric Anesthesia: Premeds to Emergence Delirium. Remote, Texas, USA, May 2, 2022.

Adler AC. The opioid crisis, how bad is it and what can I do perioperatively. NWAS, Remote, Texas, USA, May 3, 2022.

Aina TA. Assessing Diversity Among Full-Time Anesthesiology Faculty in U.S. Medical Schools. AUA Annual Meeting, Texas, USA, March 17, 2022.

Aina TA. Assessing Diversity Among Full-Time Anesthesiology Faculty in U.S. Medical Schools. IARS/AUA Annual Meeting (Virtual), Texas, USA, March 18, 2022.

Aina TA. Congenital heart disease and the Adult Anesthesiologist. ASA Overseas Teaching Program/Guyana (Zoom), Guyana, February 1, 2022.

Aina TA. Improving the Anesthesiology Rotation for Medical Students: A Cohort Study. Euroanesthesia 2022, Milan, Italy, June 4, 2022.

Aina TA. Session I Moderator - The History and Future of Pediatric Anesthesiology. SPA 2022, Florida, USA, April 1, 2022.

Aina TA. The Flipped Classroom in Pediatric Anesthesiology. ViSiPAP/Seattle Children's - WebEx, Texas, USA, November 21, 2022.

Aina TA. The Flipped Classroom in Pediatric Anesthesiology. Visiting Professor/Boston Children's Hospital, Massachusetts, USA, July 6, 2022.

Baijal RG. Anesthesia for Congenital Heart Disease for Non-Cardiac Surgery. Mexican Society of Cardiothoracic Anesthesiologists, Mexico, May 25, 2022.

Baijal RG. Vaping and E-Cigarette Use in Adolescents. Children's Hospital of Los Angeles, California, USA, January 25, 2022.

Campos-Lopez CJ. Pediatric Liver Transplant. Clinical Pearls. Pediatric Anesthesia Department of Hospital Rebagliatti. Lima, Peru. Via Zoom, Lima, Peru, June 9, 2022.

Campos-Lopez CJ. Use of TTE(US) for the Hemodynamic Unstable non Pediatric Cardiac Patient. Colegio de Anestesiología Jalisco, Mexico, Guadalajara, Jalisco, Mexico, February 12, 2022.

Caplan L. Interesting case files. TSA, Round Rock, Texas, USA, September 9, 2022.

Caplan L. Managing the failing right ventricle: the anesthesiologists perspective. UCSF neonatal and childhood pulmonary vascular disease conference, San Francisco, California, USA, February 24, 2022.

Caplan L. Pro Con debate- Should I use critical events checklists during crises? International meeting for simulation in healthcare, Los Angeles, California, USA, January 18, 2022.

Caplan L. Using the escape room format to promote preoperative simulation. International meeting for simulation in healthcare-virtual meeting, Los Angeles, California, USA, January 17, 2022.

Chandrakantan A. Big Data: how can I apply to this my clinical practice? Northwest Anesthesia Seminars, Houston, Texas, USA, February 7, 2022.

Chandrakantan A. Drug Induced Sleep Endoscopy, NWAS, Houston, Texas, USA, February 3, 2022.

Chandrakantan A. Of Mice and Men: Translating preclinical studies to clinical practice. NWAS, Houston, Texas, USA, February 2, 2022.

Chandrakantan A. Opioid Crisis: what anesthesia providers can do. NWAS, Houston, Texas, USA, February 2, 2022.

Chandrakantan A. Pediatric OSA: Neurocognitive Phenotypes. UM Columbia, Columbia, Missouri, USA, April 13, 2022.

Chandrakantan A. Sunrise Medical Device. <https://aasm.org/consumer-clinical-sleep-technology/sunrise-chin-strap/>, Darien, Illinois, USA, February 3, 2022.

Chandrakantan A. Troubleshooting PACU Problems. NWAS, Houston, Texas, USA, February 2, 2022.

Chen K. Pro/Con Panel: Should I Utilize Critical Events Checklists During Crises? The International

Meeting on Simulation in Healthcare 2022, Los Angeles, California, USA, January 18, 2022.

Chen M. No Source Control? No Problem! Sticking To The Principles Of The Massive Transfusion Protocol Following Hepatic Subcapsular Hemorrhage And Rupture. IARS (Virtual Presentation), Unknown, USA, March 18, 2022.

Chen M. No Source Control? No Problem! Sticking To The Principles Of The Massive Transfusion Protocol Following Hepatic Subcapsular Hemorrhage And Rupture. SOCCA (Virtual Presentation), Unknown, USA, March 19, 2022.

Chu K. Opioid Use in the Inpatient Setting. Texas Pediatric Society, Galveston, Texas, Tadjikistan, September 9, 2022.

Faraoni D. An Update on Pediatric Blood Management. University of Oklahoma - Anesthesiology Clinical Care Conference Ground Rounds, Oklahoma, USA, January 28, 2022.

Faraoni D. Best Articles of the Year: Anesthesiology. Principles of Pediatric Anesthesia and Critical Care, Boston, Massachusetts, USA, May 8, 2022.

Faraoni D. Causes of anemia and iron deficiency in newborns, infants, children, and adolescents: Approach to evaluation and treatment. Grupo Cooperativo Iberoamericano de Medicina Transfusional, Spain, October 27, 2022.

Faraoni D. Enhanced Recovery & Early Extubation After Pediatric Cardiac Surgery. University of Padova, Italy, January 14, 2022.

Faraoni D. Every Drop of Blood Counts: editor's Pick for Anesthesiology. The Anesthesiology Annual Meeting 2022, Louisiana, USA, October 22, 2022.

Faraoni D. Guidelines and Global Implementation Strategies: Pediatric Cardiac Surgery. University for Continuing Education Krems, Austria, June 23, 2022.

Faraoni D. How Low Can You Go? Physiological Effects of Anemia and Transfusion Triggers During Cardiac Surgery . The Anesthesiology Annual Meeting 2022. , Louisiana, USA, October 22, 2022.

Faraoni D. Patient Blood Management in Pediatrics. Children's Hospital of Eastern Ontario Anesthesia Grand Rounds, Ottawa, Canada, November 30, 2022.

Faraoni D. PBM in Pediatric Cardiac Patients. SPA, Florida, USA, April 2, 2022.

Faraoni D. Place des tests visco-élastiques dans la gestion des assistances circulatoires temporaires.. CAPSO 2022, Bordeaux, France, December 1, 2022.

Faraoni D. Preoperative optimization of the pediatric patient. CCAS, Florida, USA, March 31, 2022.

Faraoni D. Use of Viscoelastic Tests in Critical Care Setting: Utility and Challenges. International Society on Thrombosis and Haemostasis, United Kingdom, August 16, 2022.

Faraoni D. Using Big Data for Clinical Outcome Research in Pediatric Anesthesia Tips to Get Started. Stanford Anesthesia Grand Rounds, California, USA, June 20, 2022.

Faraoni D. Viscoelastic tests. How interpret them? Sociedad Mexicana de Anestesiólogos Cardiorrácicos, Mexico, November 5, 2022.

Felberg TA. Pediatric Advanced Life Support. ASA Annual meeting 2022, New Orleans, Louisiana, USA, October 24, 2022.

Felberg TA. Perioperative Management of Patients with Inborn Errors of Metabolism. Otolaryngology Case Conferences and Didactics, Houston, Texas, USA, March 9, 2022.

Fuller CL. Chronic Esophageal Foreign Body with Airway Collapse. Society for Pediatric Anesthesia Winter 2022 Meeting, Tampa, Florida, USA, April 2, 2022.

Fuller CL. Don't Rock the Baby: Managing a Difficult Airway in a Baby with an Unstable C-Spine. American Society of Anesthesiologists Annual Meeting, New Orleans, Louisiana, USA, October 24, 2022.

Fuller CL. Interactive PBLD: Mediastinal Masses. Texas Society of Anesthesiologists 2022 Annual Meeting, Round Rock, Texas, USA, September 9, 2022.

Fuller CL. Opioid-Sparing Total Intravenous Anesthetic in a Patient with Mitochondrial Disease. American Society of Anesthesiologists Annual Meeting, New Orleans, Louisiana, USA, October 23, 2022.

Garcia PJ. Diversity, Equity, and Inclusion - Moderator. Texas Society for Anesthesia Annual Meeting - Pediatric Parallel Session, Round Rock, Texas, USA, September 9, 2022.

Garcia PJ. Introduction to Team Building, Communication, and Crisis Resource Management. PediEscape: A Simulation Room Experience at the 2002 Society for Pediatric Anesthesia Spring Meeting, Tampa, Florida, USA, April 2, 2022.

Glover CD. Anesthesia Billing Basics. TSA - Transition to Practice, Round Rock, Texas, USA, September 10, 2022.

Glover CD. Becoming an Asset to Your Practice, Hospital, & Beyond Cortez CD. ASA Advance, Dallas, Texas, USA, January 29, 2022.

Glover CD. MC212 - Are You a Committee Member, Chair, or Leader? Everything You Need to Know to Succeed. ASA Advance, Dallas, Texas, USA, January 29, 2022.

Hassanpour A. Pediatric Anesthesia Jeopardy: Audience Participation via E-Polling. 2022 TSA Annual Meeting at the Pediatric Parallel Session, Round Rock, Texas, USA, September 9, 2022.

Hassanpour A. Perioperative Surgical Home - Patient List. Biomedical Informatics Special Interest Group of the Society of Pediatric Anesthesiology, Tampa, Florida, USA, March 7, 2022.

Jonna LM. Improving the Anesthesiology Rotation for Medical Students: A Retrospective Cohort Study. Euroanesthesia Conference 2022, Italy, June 4, 2022.

Kanjia MK. Airway management and Anesthesia for a patient with Mucoepidermoid Carcinoma. SPA, Tampa, Florida, USA, April 1, 2022.

Kanjia MK. Case presentation of JNA: skull based tumor. SPA, Tampa, Florida, USA, April 1, 2022.

Kanjia MK. Drift into Failure: Should We be Hunting for the Broken Pieces? VisiPAP, Colorado, USA, March 7, 2022.

Liu CJ. Erector Spinae Plane Catheters for pain control in open abdominal surgery with extreme scoliosis. ASRA , Orlando, Florida, USA, November 19, 2022.

Liu CJ. No Source Control? No Problem! Sticking to the Principles of the Massive Transfusion Protocol following Hepatic Subcapsular Rupture and Hemorrhage. International Anesthesia Research Society (IARS) 2022 Annual Meeting (virtual)., Texas, USA, March 18, 2022.

Liu CJ. One lung ventilation Techniques. TSA, Round Rock, Texas, USA, September 9, 2022.

Liu CJ. Pharmacokinetic modeling of ropivacaine following single shot erector spinae plane block in Anesthetized Pediatric patients: a feasibility study. SPA conference, Tampa, Florida, USA, April 2, 2022.

Liu CJ. Pharmacokinetic modeling of ropivacaine following single shot erector spinae plane block in Anesthetized Pediatric patients: a feasibility study. SPPM conference, Tampa, Florida, USA, March 31, 2022.

Lobaugh LM. Button Battery Ingestion and the Novel Strategies to Mitigate Harm. Texas Society of Anesthesiologist Anesthesia Tech Series, Texas, USA, September 11, 2022.

Mann DG. Discussion Panel on Vaccine Mandates. TSA, Texas, USA, January 15, 2022.

Mohammad S. 7 Easy Ways to Reduce your Carbon Footprint in Anesthesia. Children's Hospital of

Michigan, Detroit, MI, Detroit, Michigan, USA, May 11, 2022.

Mohammad S. Anesthetic Management During Fasciotomy for Fulminant Necrotizing Soft Tissue Infection Secondary to Uncontrolled Diabetes Mellitus Type II. SPA, Tampa, Florida, USA, April 2, 2022.

Mohammad S. Become more Sustainable in Anesthesia. SUNY Downstate College of Medicine, Brooklyn, NY, Brooklyn, New York, USA, June 2, 2022.

Mohammad S. Decreasing the Carbon Footprint of the Operating Room. Moderator for Panel at the STA, Houston, Texas, USA, January 15, 2022.

Mohammad S. Greening the OR: Progress with Volatiles and Future Sustainability Efforts. VISIPAP for University of North Carolina (UNC), Houston, Texas, USA, November 17, 2022.

Mohammad S. Perioperative Solid Waste Management -Reducing your ecological footprint. SPA National meeting - podium lecture, Tampa, Florida, USA, April 2, 2022.

Mohammad S. Preoperative Evaluation of Pediatric Sinus Bradycardia Secondary to Pulmonary Hypertension: Don't Overlook Bradycardia in an Athlete!. SPA National meeting poster presentation, Tampa, Florida, USA, April 2, 2022.

Mohammad S. Preoperative evaluation of sinus bradycardia secondary to undiagnosed pulmonary hypertension in an athlete. ASA, New Orleans, Louisiana, USA, October 23, 2022.

Mohammad S. Reduce your Carbon Footprint with Easy Practice Changes. SPA national meeting for APP symposium, Tampa, Florida, USA, April 3, 2022.

Mohammad S. Single Lung Ventilation Strategies in Pediatric Patients. VISIPAP Presentation to UCSF 6- 6:30 pm Virtual presentation over zoom, San Francisco, California, USA, February 28, 2022.

Mohammad S. Sustainable Anesthesia Practice. Cincinnati Children's Hospital, Cincinnati, Ohio, USA, August 17, 2022.

Mossad EB. Conflict Resolution. Society for Pediatric Anesthesia, Tampa, Florida, USA, April 2, 2022.

Motta P. Anestesia CV para cirugía no CV. Congreso Uruguayo de Anestesiología 2022, Montevideo, Montevideo, Uruguay, April 22, 2022.

Motta P. Anestesia fuera de block. Resonancia Cardíaca. Congreso Uruguayo de Anestesiología, Montevideo, Montevideo, Uruguay, April 21, 2022.

Motta P. Exchange transfusion and cardiopulmonary bypass in a patient with sickle cell

disease. CCAS 2022, Tampa, Florida, USA, March 31, 2022.

Motta P. Objetivos Hemodinámicos Iniciales de ECMO. 1er Simposio Virtual Internacional Latinoamericano de Anestesia Cardíaca Pediátrica, Boston, Massachusetts, USA, June 4, 2022.

Motta P. Soporte Vital Extracorpóreo, Dispositivos de asistencia ventricular, Opciones decisiones y gestión. XXII CURSO DE ACTUALIZACIÓN EN ANESTESIOLOGÍA PEDIÁTRICA Y XII INTERNACIONAL DE ANESTESIOLOGÍA PEDIÁTRICA, Mexico City, CMDX, Mexico, March 19, 2022.

Motta P. Severe Hypertrophic Cardiomyopathy with concomitant Left Anterior Descending Coronary Artery Myocardial Bridge: A Medically Challenging Case. CCAS 2022, Tampa, Florida, USA, March 31, 2022.

Naus CA. Reversal Revisited: Quantitative Twitch Monitoring and Postoperative Pulmonary Complications in Fetal Surgery Patients. Society for Maternal-Fetal Anesthesia (SMFA) 1st Annual Meeting, Denver, Colorado, USA, September 24, 2022.

Nzegwu BC. POP goes the lung! Anesthetic management of resection of large pleuropulmonary blastoma. Society for Pediatric Anesthesia Spring 2022 Meeting, Tampa, Florida, USA, April 3, 2022.

Nzegwu BC. Transition to Practice - Panel speaker, North Carolina, USA, May 23, 2022.

Olutoye O. The Curious mind; Pearls & Gains of the Academic mind. MD Anderson Cancer Center Education & Research day, Houston, Texas, USA, August 20, 2022.

Otu C. Aortic Root Replacement Following a Cesarean Section. Congenital Cardiac Anesthesia Society 2022 Annual Meeting, Tampa, Florida, USA, March 31, 2022.

Prada Rico MA. Anesthesia for ESRD. ViSIPAP exchange to Colorado Children's, Denver, Colorado, USA, March 7, 2022.

Prada Rico MA. Glidescope/CMAC FOB combo intubation for difficult airway. Fellows BOOT Camp; presented to fellows from different fellowship programs including outside of Texas. Video presentation was done prior to start workshop, Houston, Texas, USA, August 20, 2022.

Pranav HP. Management of ICP Crisis in the Setting of Massive Abdominal Hemorrhage. ASA, New Orleans, Louisiana, USA, October 24, 2022.

Pranav HP. Management of ICP Crisis in the Setting of Massive Abdominal Hemorrhage. Society of Pediatric Anesthesia Conference, Tampa Bay, Florida, USA, April 2, 2022.

Sawires YI. Difficult airway in a patient with Congenital heart disease. SPA 2022, Tampa, Florida, USA, April 2, 2022.

Schackman J. Anesthetic Management of Thoracophalopagus Conjoined Twins Separation: A Case Report. Texas Society of Anesthesiologists, San Antonio, Texas, USA, September 9, 2022.

Siddiqui ZA. Sudden Code Blue during MRI scan in a 3 year old patient with AML. IARS, Honolulu, Hawaii, USA, March 18, 2022.

Siddiqui ZA. Transition to Residency Airway Lecture. UTMB, Galveston, Texas, USA, February 24, 2022.

Sutton CD. Addressing Maternal Mortality: Key Factors for Change". SOAP Webinar, Illinois, USA, June 4, 2022.

Sutton CD. Don't just sit there - Do nothing? Management of the Jehovah's Witness for Obstetric Hemorrhage. Euroanaesthesia 2022, Italy, June 5, 2022.

Sutton CD. Fetal Surgery During the COVID-19 Pandemic: A Decision Support Algorithm for Managing Ethical and Clinical Conundrums. SOAP AM 2022, Illinois, USA, May 12, 2022.

Sutton CD. Fetoscopic NTD Repair: Is less invasive better? SMFA, Colorado, USA, September 24, 2022.

Sutton CD. Finding a Voice Post Dobbs. SOAP Town Hall, Unknown, USA, August 2, 2022.

Sutton CD. Make the Connection: Matching Intentional Communication Strategies to Opportunities Where Disparities Exist. SOAP AM Opening Panel, Illinois, USA, May 12, 2022.

Sutton CD. Maternal versus fetal rights at term: Maternal refusal of cesarean delivery for imminent fetal demise. Euroanaesthesia 2022, Italy, June 4, 2022.

Sutton CD. Outnumbered: Lessons Learned from Anesthesia for Fetal Surgery. Stanford Grand Rounds, California, USA, January 24, 2022.

Sutton CD. Periop Pregnancy Problems. Women in Anesthesiology Annual Meeting Keynote Lecture, Unknown, USA, October 15, 2022.

Sutton CD. Post Dobbs: Implications for Anesthesiologists. Women in Anesthesiology AM Keynote Lecture, Unknown, USA, September 15, 2022.

Tjia IM. Improving Safety in Pediatric Anesthesiology: Wake Up Safe Initiative. Texas Society of Anesthesiology, Texas, USA, January 3, 2022.

Tjia IM. TSA Question and Answer. TSA - Virtual meeting, Houston, Texas, USA, January 15, 2022.

Tjia IM. Wake Up Safe: PIV Infiltration Change Concept Package. WUS phone conference, Houston, Texas, USA, August 4, 2022.

Tjia IM. Wake Up Safe: QI Collaborative Update. Wake Up Safe, Tampa, Florida, USA, April 3, 2022.

Torres L. Acupressure/Acupuncture: Hands-On Workshop. American Academy of Pediatrics, Anaheim, California, USA, October 9, 2022.

Torres L. Acupuncture: History, Philosophy, Evidence. American Academy of Pediatrics Section of Integrative Medicine, Anaheim, California, USA, October 9, 2022.

Torres L. Panel discussion: Career pathways. Rice University UNIV 330, Houston, Texas, USA, January 26, 2022.

Vener DF. Cor Triatrum Sinister in a Pediatric Patient. Society of Cardiovascular Anesthesia Annual Meeting, Hawaii, USA, January 31, 2022.

Vener DF. Development of a Predictive Model of Cardiac Arrest and Unplanned Need for Extracorporeal Life Support in Congenital Cardiac Surgery. American Society of Anesthesiology, New Orleans, Louisiana, USA, October 23, 2022.

Vener DF. Endovascular Fenestration of intimal flap in an adolescent patient with Type A Aortic Dissection. Society of Cardiovascular Anesthesia Annual Meeting, Hawaii, USA, January 31, 2022.

Wayman KL. Incorporating Simulation into Sedation and Emergency Management. Pediatric Sedation and Dental Sedation Outside the Operating Room -Sponsored by Boston Children's Hospital, San Francisco, California, USA, September 10, 2022.

Wyatt-Thompson KE. ASA Pain Summit 2. Perioperative Pain Principles: Guidelines for practitioners, District of Columbia, USA, February 26, 2022.

Wyatt-Thompson KE. Continuous wound infusion versus regional anesthesia techniques for auricular reconstruction postoperative pain management. American Society of Pediatric Otolaryngology (ASPO) Annual meeting, Dallas, Texas, USA, April 2, 2022.

Wyatt-Thompson KE. Exparel for suprazygomatic nerve blocks: a case report. ASRA Spring 2022, Nevada, USA, April 2, 2022.

Wyatt-Thompson KE. Leadership. Judson University, Illinois Invited Lecturer, Elgin, Illinois, USA, July 8, 2022.

Wyatt-Thompson KE. Leadership in Pediatric Anesthesia: Past, Present and Future. SPA Spring 2022, Tampa, Florida, USA, April 1, 2022.

Wyatt-Thompson KE. Leadership Roundtable: Ask the experts transitioning from Clinician to Hospital

Administration. SPA Spring 2022, Tampa, Florida, USA, April 3, 2022.

Wyatt-Thompson KE. Moderated Poster Session: Regional anesthesia and acute pain medicine. SPA Spring 2022, Tampa, Florida, USA, March 31, 2022.

Wyatt-Thompson KE. Pharmacokinetics of Ropivacaine following a single shot erector spinae plane block in the pediatric population: a feasibility study. SPPM Spring Podium bets of the meeting PowerPoint presentation, Tampa, Florida, USA, March 31, 2022.

Wyatt-Thompson KE. Pharmacokinetics of Ropivacaine following single shot erector spinae plane block in the pediatric population: a feasibility study. ASRA Spring 2022, Las Vegas, Nevada, USA, March 31, 2022.

Wyatt-Thompson KE. Pharmacokinetics of Ropivacaine following single shot erector spinae plane block in the pediatric population: a feasibility study. SPA Spring moderated poster session, Tampa, Florida, USA, April 2, 2022.

Wyatt-Thompson KE. Regional Anesthesia for SCD VOC: a pediatric perspective. National Medical Association, Atlanta, Georgia, USA, August 1, 2022.

Yamani AN. MRI and Non-Operating Room Anesthetics. TSA 2022, Austin, Texas, USA, September 10, 2022.

Yamani AN. POP goes the lung! Anesthetic management of resection of large pleuropulmonary blastoma. SPA Tampa 2022, Tampa, Florida, USA, April 3, 2022.

Zamorano OD. That Doesn't Sound Right... Recognizing and Managing Common Arrhythmias in the Intraoperative Setting. Visiting Scholars in Pediatric Anesthesia Program (ViSiPAP) - University of North Carolina, North Carolina, USA, November 17, 2022.

ACTIVE GRANTS

Funder	PI	Start Date	End Date	Total Funds
Additional Ventures	Easley	1/15/2021	1/14/2024	\$ 98,272
NIDA STTR Phase II	Fuller	9/1/2021	8/31/2023	\$374,982
NHLBI K08	Chandrakantan	2/1/2022	1/31/2027	\$748,340
SmartTots	Ng	8/1/2022	7/31/2025	\$ 24,000
Pediatric Heart Network - Year 7	Vener	1/1/2023	12/31/2023	\$ 68,074
FAER MSARF	Faraoni	6/1/2023	11/30/2023	\$ 6,300

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