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## A Natural Fit

*UNC Anesthesiology Comes to Wayne UNC Health Care*



L to R: Wayne UNC Health Care anesthesiologists Drs. Al Melvin, Voltaire Misa, Jamie Cummings (top) and Peter Fischer (bottom)

Ask UNC faculty anesthesiologists how it's gone since joining Wayne UNC Health Care's anesthesia care team this year. Sit with Wayne's clinical supervisor for managerial perspective on whether the hospital's CRNAs are applying their peri-anesthesia scope of practice under new physicians. Stop by pre-op for nursing input on the feel of team communications working alongside UNC anesthesiologists. The feedback from all brings one to mind spelling a positive outlook for anesthesia care delivery at Wayne as UNC faculty anesthesiologists take the helm — cohesion.

Onboarding five UNC anesthesiologists at Wayne by year's end is not only welcome; it's also timely. In September 2019, construction and renovation of a surgical pavilion project was completed adding almost 100K square feet to Wayne's operating rooms (ORs). This massive undertaking modernized 12 ORs, four procedural rooms, one endoscopy/ERCP suite and one labor & delivery unit, among others. Overhauled surgical areas provide UNC anesthesiologists an early-stage opportunity to build workplace perioperative relationships with Wayne's pre- and post-op nurses, Certified Registered Nurse Anesthetists (CRNAs) and OR personnel.

Professor of Anesthesiology and Vice Chair of Clinical Operations Dr. Bryant Murphy led the team tasked with negotiating to bring UNC Anesthesiology faculty to this mutually interested 300+-bed hospital in Goldsboro, NC. From the outset, Murphy routinely served in the ORs at Wayne to observe the process firsthand. In this role, he evaluated what structural elements from a large academic medical center might apply well if this smaller hospital incorporated new anesthesiology leadership. Murphy's private practice experience was invaluable in helping steer the initial integration of UNC faculty at Wayne.

"Bringing aboard School of Medicine anesthesiologists at Wayne was a natural fit. UNC's evidence-based and data-driven models of anesthesia care delivery translated well at and filled an area of need at Wayne. This hospital had a group of extremely well-qualified CRNAs who were invaluable in the transition of anesthesia care groups."

Assistant Professor Al Melvin came to Wayne in mid-2018 as a private practitioner. When the hospital shifted to UNC Anesthesiology a year later, Dr. Melvin joined the UNC faculty and was appointed Wayne's Anesthesia Medical Director. He provided invaluable continuity and espoused a leadership style promoting team advocacy of Wayne's surgical patients as UNC anesthesiologists began providing care.

continued from page 1

Melvin stated: “Our faculty looks forward to UNC Anesthesiology faculty guidance in adding specialized anesthesia care services at Wayne. Integrating airway management, sedation and general anesthesia into newly expanded endoscopy suites, cardiac catheterization labs and surgical procedures, [respectively], will require a skilled anesthesia care team to keep pace as Wayne’s surgical cases integrate any new services we offer.

Expanding our pain management services is an area of acute awareness for our anesthesiologist group. Offering nerve blocks and related pain management tools for patients will offset the level of narcotics we administer and allow our patients to experience a faster and less painful recovery period.”

Melvin’s physician group also aims to include working with Wayne’s leadership to secure non-OR space for anesthesia care services. Beyond a case work-up lounge, the team only comes together within Wayne’s peri-operative and OR suites. A dedicated, non-OR space for anesthesia care services will allow this division to explore expanding into teaching, research and other non-clinical areas.

Assistant Professor Dr. Peter Fischer, a Brunswick County resident with professional and personal ties to Wayne County, adds:

“Our physician group is in and out of OR cases all day. In the months ahead, we look forward to working with Wayne’s experienced anesthesia team to determine what UNC Medical Center protocols and practices might apply well to the hospital’s OR patient care.”

Assistant Professor Dr. Jamie Cummings points out where Wayne’s OR flow has been restructured on a summary tour of its just-completed surgical and endoscopy areas. He notes:

“Patient staging and PACU areas are now located adjacently to optimize peri-operative staff placement and efficiency. The master architectural plan placed a centralized sterile core directly serving 12 ORs in order to vastly improve the peri-operative workflow.”

Clinical Supervisor Rick Middleton oversees Wayne’s hospital-staffed, 21-CRNA anesthesia care team. From a supervisory standpoint, Middleton sees a positive workplace relationship already taking shape between CRNAs and UNC anesthesiologists in just months.

“These physicians understand the important role that CRNAs play in the anesthesia care team. They apply their expertise perioperatively and keep our caseload moving. With UNC’s anesthesiologists, our CRNAs now go beyond limited pre-op OR tasks like placing arterial lines. They administer anesthesia and sedation, intubate and monitor patient airways, and lead post-op emergence. It’s heartening to watch them use their skills to a much greater extent. The confidence UNC’s anesthesiologists place in our CRNAs has amazing impact on patient case turnaround.”

UNC Wayne Health Care joins Chatham Hospital as the only two UNC Health Care System affiliates where UNC Faculty Anesthesiologists provide all of anesthesia coverage. The early-stage successes at Wayne reinforce Department leadership hopes of expanding to other affiliate locations.

Dr. Murphy noted: “Expanding our services into Wayne County was a challenging, but positive step for the Department. Because I am from eastern North Carolina, bringing our physicians to Wayne was personal. I knew firsthand some of the healthcare challenges this region experiences like other parts of North Carolina.

The ability to provide a positive perioperative experience to an ever-expanding region of the state is in line with UNC Health Care’s goals. We are very proud of our successes at Wayne and hope for the same outcomes when we next introduce anesthesiology services to another [UNC Health Care] affiliate.”

**“Bringing aboard School of Medicine anesthesiologists at Wayne was a natural fit. UNC’s evidence-based and data-driven models of anesthesia care delivery translated well at and filled an area of need at Wayne.”**

– Dr. Bryant Murphy, Vice Chair of Clinical Operations



Top left: Vice Chair of Clinical Operations Dr. Bryant Murphy led the process of bringing UNC Anesthesiology faculty physicians to Wayne UNC Health Care. Top right: Clinical Supervisor Rick Middleton oversees all non-anesthesiologists on Wayne’s 21-CRNA anesthesia care team. Bottom: Wayne UNC Health Care RNs in pre-op.

# NUMBERS AT A GLANCE\*

UNC Department of Anesthesiology

## UNC Anesthesiology Comes to Wayne UNC Health Care



**11,000**  
cases annually

**10**

Operating rooms

**4**

Procedure rooms

**1350**

deliveries annually



**5**

Anesthesiologists

**21**

CRNAs



**48%**

Medicare



David A. Zvara, MD  
Professor and Chair

## Chairman's Note

**W**hy Wayne? Our healthcare system is growing by leaps and bounds. Doesn't it seem like every other day we acquire, agree to manage, or otherwise align with another Hospital? It sure does to me. It is important to stop and think about why UNC is pursuing this strategy and how UNC Anesthesiology can be a part of this growth.

In the late 1990's, UNC Health Care was formed as a corporate entity. Soon thereafter UNC REX joined with us and the journey so began. Today, we have thirteen separate hospitals in our system ranging from UNC Pardee in the Mountains to Wayne UNC in Goldsboro. What brings us together is the belief that through our integrated networks, the citizens of North Carolina are better served.

UNC Health Care is the vehicle through which our physicians are exploring new and innovated quality-based payment models. Our Clinically Integrated Network reaches over two million citizens in the State. Recently, the Wall Street Journal featured North Carolina and the work of UNC in this effort to move to quality over simple quantity. It is great to be a part of this healthcare transformation.

UNC Anesthesiology has embraced the challenges of this change. Ten years ago, we provided care at one location, Memorial Hospital on Manning Drive. Today, we are in Raleigh, Chatham, Hillsborough, and soon to be Cary, and Holly Springs. And, of course, Wayne UNC.

In this issue you will read about the great people we have at Wayne. Many of our physicians have provided care in the transition from the private practice group to this new UNC Anesthesiology site. Our growth not only mirrors the growth of the Healthcare system, but with each new expansion we are placing a brick in our scholarly house. I firmly believe that without a vibrant, competitive, leading clinical effort, there is no way we can educate and innovate.

UNC Health Care is leading change in North Carolina and UNC Anesthesiology is leading among our many Departments. Thank you all for the role you play in providing access and delivering the greatest healthcare one can find. Thank you for working to make healthcare affordable to all. Thank you for contributing to our educational and research missions through these selfless efforts.

## 2018–2019 New Hires

### CLINICAL FACULTY

<b>Lindsey Gouker</b>	Instructor/Masters Fellow
<b>Jacqueline Linton</b>	Instructor/Fellow
<b>Robb Wasserman</b>	Assistant Professor
<b>Daniel McMillan</b>	Assistant Professor
<b>George Dignan</b>	Assistant Professor
<b>Shawn Jia</b>	Assistant Professor
<b>Vishal Dhandha</b>	Assistant Professor
<b>Stephen Acosta</b>	Assistant Professor
<b>Skye Margolies</b>	Assistant Professor
<b>Cy Mozingo</b>	Instructor/Regional Fellow
<b>Jeffrey Park</b>	Instructor/Regional Fellow
<b>James Cummings*</b>	Assistant Professor
<b>Al Melvin*</b>	Assistant Professor
<b>Annika Barnett</b>	Assistant Professor
<b>Brian Specht</b>	Assistant Professor
<b>Lacey Straube</b>	Assistant Professor
<b>Jenny Eskildsen</b>	Assistant Professor
<b>Duncan McLean</b>	Assistant Professor (CCM)
<b>Aaron Low</b>	Assistant Professor
<b>Peter Fischer*</b>	Assistant Professor
<b>Stuart Grant</b>	Professor/Regional Division Chief
<b>My Liu</b>	Assistant Professor
<b>Nicole Short</b>	Assistant Professor
<b>Elisa Lund*</b>	Clinical Instructor
<b>Voltaire Misa*</b>	Assistant Professor

\*Wayne UNC Health Care

### CRNAs

<b>Genevieve Crzywacz-Laughter</b>	CRNA
<b>Michael Laughter</b>	CRNA

### CRNAs (cont.)

<b>Kyle St. Jean</b>	CRNA
<b>Kaela Mukuno</b>	CRNA
<b>Emily Robertson</b>	CRNA
<b>Riley Gaines</b>	CRNA
<b>Meaghan Locke</b>	CRNA

### Staff Members

<b>Chloe Barton</b>	Social/Clinical Research Assistant
<b>Leanne Heilman</b>	Accounting Technician
<b>Adam Hively</b>	Social/Clinical Research Assistant
<b>Britannia Wanstrath</b>	Research Specialist
<b>Saswati Datta</b>	Research Data Manager
<b>Hannah Pavcik</b>	Social/Clinical Research Assistant
<b>Kelly Clement</b>	Business Services Coordinator
<b>Tao Bian</b>	Social/Clinical Research Specialist
<b>Emily Gawlik</b>	Social/Clinical Research Assistant
<b>Lindsay Macchio</b>	Social/Clinical Research Assistant
<b>Suraj Oomman</b>	Social/Clinical Research Assistant
<b>Heather Swain</b>	Social/Clinical Research Assistant
<b>Megan Henderson</b>	Lead Research Coordinator
<b>Karen Van Manen</b>	Lead Research Coordinator
<b>Caroline Taheri</b>	Social/Clinical Research Assistant
<b>Chris Agala</b>	Social/Clinical Research Specialist
<b>Andrew Tungate</b>	Lead Data Manager
<b>Yinyao Ji</b>	Biostatistician
<b>Angel Hicks</b>	Administrative Support Associate
<b>Diana Haith</b>	Administrative Support Associate
<b>Mark Postlethwaite</b>	Administrative Support Associate
<b>Nicole Stelly</b>	Administrative Support Associate

## Anesthesia Care Update



UNC Department of Anesthesiology was pleased to welcome aboard eight Anesthesia Technologists in 2019

James Moyer (PRN)  
Amber Barrett

Onue Taylor  
Virginia Nive

Michael Smith  
Rodney Smith

Taylor Meadow  
Andrea Washington

# Leadership Recognition

**Women in anesthesiology are leading in remarkable ways! UNC Department of Anesthesiology would like to recognize four female faculty members — Drs. Kimberley Nichols, Lavinia Kolarczyk, Concetta Lupa and Peggy McNaull — for their noteworthy achievements in 2019.**



**Dr. Kimberley Nichols**  
*Associate Professor of Anesthesiology*

In May 2019, Associate Professor of Anesthesiology Dr. Kimberley Nichols was among those UNC School of Medicine (SOM) faculty selected to join the SOM's Promotion and Tenure Committee. On a SOM committee of distinction, Dr. Nichols and other members will serve a three-year term and are responsible monthly for reviewing faculty members' promotion packets based on the prescribed criteria set forth by the UNC School of Medicine.

In July 2019, the Department chose Dr. Nichols to represent UNC Anesthesiology as its Diversity and Inclusivity Liaison. Under a new initiative created by the SOM's Strategic Plan Forward Together, Dr. Nichols and other faculty liaisons are tasked with establishing avenues for promoting diversity and inclusivity internally and as a collective body across the SOM. UNC Anesthesiology's newly formed Diversity Committee will assist Dr. Nichols in identifying topics related to diversity and inclusivity that can be shared through various resources and opportunities with leadership, current and prospective Department members, and wider audiences.



**Dr. Lavinia Kolarczyk**  
*Associate Professor of Anesthesiology & Cardiothoracic Anesthesiology Division Chief*

In June 2019, Associate Professor and Cardiothoracic Anesthesiology Division Chief Dr. Lavinia Kolarczyk was elected by School of Medicine faculty to serve as a Member-at-Large of the UNC Medical Staff Executive Committee. The MSEC acts on behalf of the Medical Staff on issues related to all aspects of medical practice, including clinical privileges, rules, and regulations. The MSEC receives and acts on reports and recommendations from Medical Staff committees and Hospitals departments. The MSEC is responsible for making recommendations to the Board of Directors.

Also in June, Dr. Kolarczyk was one of three SOM faculty selected as panel speakers for the Institute for Healthcare Quality Improvement (IHQI) summer 2019 Speaker Series. The June Speaker Series focus was on successes and challenges in sustaining and spreading quality improvement initiatives at UNC Medical Center. Dr. Kolarczyk presented her work in leading the Enhanced Recovery After Surgery (ERAS) Program at UNC Hospitals.



**Dr. Concetta Lupa**  
*Associate Professor of Anesthesiology and Pediatrics & UNC Pediatric Anesthesia Fellowship Director*

Each September, the American Medical Association (AMA) celebrates women physicians and highlights important health issues impacting women patients during Women in Medicine (WIM) Month. For WIM 2019, the American Board of Anesthesiology (ABA) Diplomates were asked to recognize the contributions of women anesthesiologists to medicine by nominating those who have significantly impacted the specialty and patient lives. Associate Professor of Anesthesiology and Pediatrics Dr. Concetta Lupa was one of 70 women anesthesiologists recognized internationally for their outstanding contributions to the specialty by the ABA's "Women in Anesthesiology" Celebration Campaign.

Nominating Professor of Anesthesiology Dr. Susan Martinelli noted:

"Dr. Lupa has a national presence in Pediatric Anesthesiology as both an Association of Anesthesiology Subspecialty Program Directors board member and as Vice Chair of the Pediatric MOCA Minute question writing committee. She is an advocate and role model for her fellows, residents and junior faculty and helped establish the pediatric pain service at UNC. She provides an outstanding level of care to our pediatric patients and ensures it will continue in future generations."



**Dr. Peggy McNaull**  
*Professor of Anesthesiology & Pediatrics and Vice Chair for Patient Safety & Quality Improvement*

In April 2019, Professor of Anesthesiology and Pediatrics Dr. Peggy McNaull was accepted as a Fellow in the 2019–2020, 25th anniversary Class of the Hedwig van Ameringen Executive Leadership in Academic Medicine (ELAM) Program for Women. ELAM, based at Drexel University College of Medicine, prepares senior women faculty at schools of medicine, dentistry and public health, for positions of leadership. ELAM's one-year program encompasses executive education, personal leadership assessment and coaching, and networking and mentoring activities.

Dr. McNaull noted: "I'm confident that the program will broaden my perspective and deepen my capacity to address the emerging issues I encounter in my current positions of leadership."

## Residency: 2019 Goodbyes & Hellos



Residency Program Director Dr. Harendra Arora (far L), Chair Dr. David Zvara (back row far R), Associate Residency Program Director Dr. Susie Martinelli (front, 2nd from R), Assistant Residency Program Director Dr. Emily Teeter (far R).

### Goodbye to Our Grads

**Soshana M. Clerizier, MD**

Private Practice  
Mid-Atlantic Permanente Medical Group • Washington, DC

**Kathryn L. FitzGerald, MD**

Private Practice  
American Anesthesiology of NC • Burlington, NC

**Madison Foushee, MD**

Pain Medicine Fellowship  
Duke Hospital • Durham, NC

**Lindsey N. Gouker, MD**

UNC MHA Fellow  
UNC Department of Anesthesiology • Chapel Hill, NC

**Jeremy G. Gue, MD**

Obstetric Anesthesia Fellowship  
UNC Medical Center • Chapel Hill, NC

**Adam A. Hill, MD**

Adult Cardiothoracic Anesthesiology Fellowship  
University of Pittsburgh Medical Center • Pittsburgh, PA

**Bryan Kidd, MD**

Cardiothoracic Anesthesiology and Critical Care Medicine  
Washington University • St. Louis, MO

**Colton Mojesky, MD**

Private Practice  
Northstar Anesthesia • Louisville, KY

**Cy Mozingo, MD**

Regional Anesthesia Fellowship  
UNC Medical Center • Chapel Hill, NC

**Jeffrey Park, MD**

Regional Anesthesia Fellowship  
UNC Medical Center • Chapel Hill, NC

**Katherine M. Rose, MD**

Private Practice  
Anesthesia Associates • Charleston, SC

**Kathryn Rosa Schott, MD**

Pain Medicine Fellowship  
UNC Medical Center • Chapel Hill, NC

**Neeraj Sriram, MD**

Pain Medicine Fellowship  
University of Pittsburgh Medical Center • Pittsburgh, PA

**Jiulong Yang, MD**

Private Practice  
East Carolina Anesthesia Associates • Greenville, NC

### Hello to Our New Folks

**PGY1**

**Alnesha Banks** – Meharry Medical College

**Amira Choucair** – Texas Tech University Health Science Center (Covenant Branch)

**Arianna Cook** – University of Arizona College of Medicine-Phoenix

**Erin Dengler** – UNC School of Medicine

**Shirin Ghanavatian** – University of Oslo Faculty of Medicine

**Craig Grosshuesch** – Medical College of Wisconsin

**Dayley Keil** – UNC School of Medicine

**Jose Puentes** – Medical College of Georgia at Augusta University

**Jacob Shaffer** – Wright State University Boonshoft School of Medicine

**Carter Simmers** – Virginia Commonwealth University School of Medicine

**CA1**

**Eric Johnson** – University of Texas School of Medicine at San Antonio

**Yuxiao Qian** – University of Texas Southwestern Medical School

# Spotlight on Fellows

## *Exceptional Fellows Make Ideal Faculty Recruits*

In academic medicine, finding dedicated faculty who can handle well the competing demands of clinical duty, research and didactics is critical when sizing up candidates straight out of training. When one of a department's own high-performing fellows and/or residents shows interest in joining faculty, the recruitment process moves favorably toward convincing a known commodity to stay.

Across its divisions, UNC Department of Anesthesiology has an established representation of faculty recruited directly from our training programs. Key to preserving this legacy is unfailingly providing a positive training experience to our residents and fellows that instills in some, year after year, the wish to begin their anesthesiology careers at UNC. In AY 2019–2020, the Department welcomed to faculty three June 2019 graduating fellows who also trained at UNC for residency. The words of their fellowship directors on their performance as trainees speaks to the promise they bring to UNC Anesthesiology in early-stage academic anesthesiology:



**Dr. Dan McMillan**  
Assistant Professor  
Fellowship: 2019–2020 / Resident: 2015–2019

“Dr. Daniel McMillan is a true Tar Heel. After pursuing an MD and a Master in Public Health at UNC, he decided to stay with us all the way through for his Anesthesiology residency and Regional Anesthesiology Fellowship! It has been a privilege and honor to witness him grow into a fine physician, a compassionate anesthesiologist and an expert regional anesthesiologist! He has been a great teacher to our residents, and is always ready to help the patients.

Everyone loves Dr. D! His commitment to patients, hardworking nature and calm manner, even under pressure, has earned him the love and support of all peers, including the perioperative staff. We feel blessed to have Dr. McMillan continue with us as a colleague.”

– Dr. Monika Nanda, Regional Anesthesia Fellowship Program Director and Associate Professor of Anesthesiology



**Dr. Brian Specht**  
Assistant Professor  
Fellowship: 2019–2020 / Resident: 2015–2019

“Dr. Specht completed both his anesthesia residency training and pediatric anesthesia fellowship at UNC. Prior to medicine, he enjoyed a successful professional baseball career. His team-centered approach to medicine and his dedication to constant improvement makes him a true fit for UNC. He brings his talent to the team in his clinical expertise and his dedication to research and quality improvement in pediatric anesthesia. We are grateful to have him join the family!”

– Dr. Concetta Lupa, Pediatric Anesthesia Fellowship Director and Associate Professor Anesthesiology and Pediatrics



**Dr. Lacey Straube**  
Assistant Professor  
Fellowship: 2019–2020 / Resident: 2015–2019

“Lacey was an outstanding fellow [in AY 2019–2020]. She was a very good resident, but really blossomed in her role as a fellow. She has excellent communication skills and promotes effective teamwork, which is very important on labor and delivery service.

Lacey has very good procedural skills, and is able to effectively teach those skills to residents. She has a positive attitude, goes the extra mile for patient care and is always willing to help a colleague in need. We were very fortunate to have her stay on as faculty at UNC.”

– Dr. Kathleen Smith, Obstetric Anesthesiology Fellowship Director & Professor of Anesthesiology and Obstetrics & Gynecology



## Congratulations Dr. Martinelli!

Congratulations to Professor of Anesthesiology Dr. Susie Martinelli for receiving the 2019 American Society of Anesthesiologists/Society for Education in Anesthesia (ASA/SEA) Distinguished Educator in Anesthesiology award! This ASA/SEA honor recognizes a select group of anesthesiologists for their outstanding record of advancing patient care through education.

# Mauck Advancing Translational Study of Chronic Pain Tied to Major Thermal Burn



**Matt Mauck, MD, PhD**  
*Assistant Professor of Anesthesiology and Emergency Medicine*

Assistant Professor **Matt Mauck, MD, PhD**, knew he wanted to pursue clinical/translational research developing new non-opioid interventions for chronic pain during his pain fellowship at Duke University. He worked closely with patients enduring tremendous suffering from chronic pain, gaining a deep human appreciation for the urgent need for novel, non-opioid pain therapies. Appointed mid-2015 to Department faculty, Mauck has developed a line of research under the mentorship of Samuel McLean, MD, MPH, examining the epidemiology of chronic pain following major thermal burn injury.

Mauck brought investigative expertise in systems neuroscience, pain medicine and molecular biology to the Anesthesiology Division of Research and Pain Management. As a lead researcher in the Department's Institute for Trauma Recovery (ITR), Mauck's investigative studies have encompassed a range of biological mechanisms tied to chronic pain.

Through **Improving Recovery for Burn Survivors**, one of the Institute's five investigative areas of focus, Mauck's pursuits concentrate on studying mechanisms underlying chronic pain development in the aftermath of burn injury. Studies and foundational papers led by his team evidenced chronic pain and itch is commonplace following major thermal burn injury, significantly impacting all aspects of emotional and physical function.

Allied with UNC Jaycee Burn Center surgeons, Mauck conducts collaborative burn recovery research with a partnering network of premier burn centers across the U.S. Over the past five years, he and co-investigators have conducted longitudinal, observational cohort studies to measure post-traumatic stress, pain, itch, and scar outcomes of major thermal burn injury survivors. These data aided Mauck and collaborators in identifying the underlying mechanisms that trigger chronic pain and incite a life-altering emotional and physiological toll on burn survivors.

Results from initial cohort studies suggesting greater chronic pain severity in burn survivors with low levels of vitamin D and omega-3 fatty acids triggered Mauck to design a clinical trial to test these simple, readily available medications to prevent chronic pain following burn injury. Currently underway, this pilot trial will assess the feasibility, safety, and potential efficacy of Vitamin D and Fish Oil in preventing chronic pain development following burn injury.

Mauck stated, "Data collected in these early cohort studies will be used to design and adequately power larger-scale clinical investigations. We hope well-designed studies will lead to improved, preventative treatment options for survivors of major burn injury."

Mauck's other studies focus on improving understanding of chronic pain development when stressful, traumatic events impact survivors long-term.

Mauck noted: "The goal of ITR is to provide a better future for survivors of traumatic events, such as burn injury. Trauma survivors are faced with a difficult path to recovery that commonly is made more difficult by chronic pain. Our multidisciplinary team is working to uncover new mechanisms by which chronic pain develops, to advance chronic pain prevention and treatment. It is energizing to work at ITR with a group passionately dedicated to making the world a better place for trauma survivors."



# Photo Gallery



Good friends celebrate the engagement of CA-3 Brent Harkrider and his fiancée Casey Makovy in June 2019 (L to R: Caitlin Huber, Chris Huber, Baby Jane Huber, Candy Ezimora, Brent Harkrider, Casey Makovy, Matt Hallman, Baby Olivia Hallman, Liz Snow)



Drs. David Zvara and Sam McLean test out the golf cart used for supply and record transport for PROJECT BURN and other studies.



AY 2019–2020 Academic Year Kickoff at home of Drs. Harendra Arora & Priya Kumar in July 2019.



UNC's Academy of Educators welcomes Education Specialist Dr. Fei Chen in May 2019 as a new member.



A send-off for Regional Anesthesia Division Chief Dr. Cody Rowan (R) in June 2019 prior to his departure for a University of Virginia pain management fellowship. Left: Assistant Professor Dr. Dan McMillan

# Featured Publications, Awards & Presentations

## January to June 2019

### ABSTRACTS & POSTER PRESENTATIONS

Blount J, Pan Y, **Mauck MC**, Datner E, Kurz MC, Hendry PL, Lewandowski C, Pearson C, **McLean SA**, **Linnstaedt SD**. "17b-estradiol as a predictor and potential mediator of chronic musculoskeletal pain development in women following trauma exposure." 2019 American Pain Society (APS) Scientific Meeting. April 2019. Milwaukee, WI.

**Straube L**, **Smith KA**. "Fatal Hyperhemolysis Syndrome in a Postpartum Patient with Sickle Cell Disease." Society of Obstetric Anesthesiology and Perinatology 51st Annual Meeting, Phoenix, AZ. May 2019.

**Society of Cardiovascular Anesthesiologists (SCA) Annual Meeting. 8th Annual Thoracic Anesthesia Symposium: Critical Procedures Workshop.** (May 2019. Chicago, IL)

Facilitators: **Bhatia M**, **Kumar P**. (PBLD Session): "Perioperative Management of a Patient on VA-ECMO."

Panel Discussion Speaker: **Martinelli S**. "Why Don't We Last Longer: Burnout in the CV Anesthesiologist."

Workshop Coordinators: **Drs. Emily Teeter**, **Lavinia Kolarczyk**

Faculty Instructors: **Drs. Lavinia Kolarczyk**, **Jason Long**, **Meena Bhatia**

Fellow Instructor: **Drs. Dan Rosenkrans**

Special Recognition: Program Committee Member **Dr. Emily Teeter**

"A rapid decline in ejection fraction: Unanticipated progression of severe valvular disease or acute physiologic insult?" Authors: **Khatrri N** (Presenter), Wilson HK, Ikonomidis JS, **Kolarczyk LM**, **Smeltz AM**.

"From Flowing to Zero-Point-Zero: Heparin-Induced Thrombocytopenia and Thrombosis in a Patient on ECMO Support." Authors: **Kidd BJ** (Presenter), **Bhatia M**.

"Intraoperative use of hydromorphone versus sufentanil in cardiac surgery." Authors: **Brown K** (Presenter), Durieux M, Sing K, **Smeltz AM**.

"Management of a Large Right Atrial Thrombus Found Incidentally on Echocardiography in a Patient Presenting with Back Pain." Authors: **Doan V** (Presenter), **Kumar P**.

"Unmasked Patent Foramen Ovale After Left Ventricular Assist Device Implantation And Its Sequelae." Authors: **Suggs J** (Presenter), **Teeter E**, **Smeltz A**, **Kolarczyk L**, **Henry M**.

"Awake Video Assisted Thoracoscopic Surgery and Metastatic Pleural Effusion and Metastatic Compression of the Right Atrium." Authors: **Clerizier SM** (Presenter), **Smeltz AM**, **Kolarczyk LM**.

"Anesthetic Considerations for Biopsy of a Large Anterior Mediastinal Mass." Authors: **Ezimora C** (Presenter), **Long J**, **Mody G**, **Kolarczyk LM**.

### MANUSCRIPTS

**D'Ercole F**, **Dhandha V**, **Levi M**, Todd A, **Kumar P**. Perioperative Challenges in Patients with Alpha-Gal Allergy. *J Clin Anesth Pain Med*. 2019;3(1). pgs. 70–78.

Henley MD, **Arora H**, Farber MA, Caranasos TG, **Teeter EG**, **Kumar PA**. Anesthetic Considerations for 3-Branch Endovascular Total Aortic Arch Aneurysm Repair. *J Cardiothorac Vasc Anesth*. 2018 Nov 30. pii: S1053-0770(18)31100-5. doi: 10.1053/j.jvca.2018.11.048. [Epub ahead of print]

**Bhatia M**, **Kumar PA**. Pro: Venoarterial Extracorporeal Membrane Oxygenation Should Always Include Placement of a Left Ventricular Vent. *J Cardiothorac Vasc Anesth*. 2019 Apr;33(4):1159–1162. doi: 10.1053/j.jvca.2018.11.004. Epub 2018 Nov 13.

**Chen F**, **Arora H**, **Zvara DA**, Connolly A, & **Martinelli SM** (2019). Anesthesia myTIPreport: A web-based tool for real-time evaluation of accreditation council for graduate medical education's milestone competencies and clinical feedback to residents. *A A Pract*. 2019 Jun 3;12(11):412–415. doi: 10.1213/XAA.0000000000000976.

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### TEXTBOOKS & CHAPTERS

**Macksey L**, **CRNA**. Surgical Procedures and Anesthetic Implications: The Ultimate Resource for Anesthesia Practice. 2nd Ed. Jones & Bartlett Learning. 1315 pgs. (2018)

**Teeter EG**, Mena GE, Lasala JD, **Kolarczyk LM**. Enhanced Recovery After Thoracic Surgery. In: Principles and Practices for Thoracic Surgery Editor: Peter Slinger. (2nd ed.) pp 873–884. 2019 Springer Nature Switzerland AG.

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**Zvara DA**. Sage Advice to Close This Book: Anesthesiology and the Aphorisms of B. Franklin, Printer. In: Avoiding Common Anesthesia Errors, 2<sup>nd</sup> Ed. Eds: Marcucci C, Gierl BT, Kirsch JR. 2020 Wolters Kluwer; pp. 1052–4.

**GRANTS**

**Mauck M, McLean S** (Co-PIs). Omega 3 Fatty Acids and Vitamin D to Prevent Chronic Pain and Opioid Use Following Burn Injury. HEAL Initiative: Pain Management Effectiveness Research Network: Clinical Trial Planning and Implementation Cooperative Agreement (UG3/UH3). NIH (NINDS, NCI, NEI, NIA, NIAAA, NIAMS, NICHD, NIDA, NIDCR, NIDDK, NIMH, NINR, NIMHD, NCCIH, NCATS). Grant Period: 2019–2023. Funding: (\$6.4M+)

**INVITED PRESENTATIONS**

Brown A, Foster J, Dallaghan GB, Byerley J, **Enarson C**, Steiner B. Balancing Comparability and Unique Curricula between Branch Campuses. 2019 SGEA Regional Conference: “Reimagining Medical Education.” March 29, 2019. Orlando, FL.

**Linnstaedt SD**. Predictors and mediators of posttraumatic chronic pain development. Stanford Department of Anesthesiology Research. Palo Alto, CA. January 23, 2019.

**McLean S**. “The Terrible Beauty of Brain Changes in Response to Life Threat.” Grand Rounds: Columbia University College of Physicians & Surgeons and Weill Medical College of Cornell University Departments of Emergency Medicine. New York City, NY. January 16, 2019.

**McLean S**. Department of Defense conference on Posttraumatic Stress Biomarkers. Fort Detrick, MD. June 20–21, 2019.

**McLean S**. “Studying the Transition from Acute to Chronic Pain After Traumatic Stress.” Annual Pain Consortium Symposium, NIH Campus. Bethesda, MD. May 29, 2019.

**McLean S**. Invited panel member/discussant: The Lion’s Den 2019: Sixth Annual Real-world Research Proposal Development Society for Academic Emergency Medicine (SAEM) Research Committee. Las Vegas, NV. May 15, 2019.

**Martinelli S**. Clinician Wellness Interventions: What’s the Role for Family and Friends? 9th Annual Ervin Moss, M.D. Patient Safety Lecture. New Jersey State Society of Anesthesiologists. March 9, 2019

**Smith KA**. Preeclampsia: What’s New in Diagnosis and Obstetric and Anesthetic Management. Mexican College of Anesthesiologists. Mexico City, Mexico. July 2–6, 2019.

**Smith KA**. Prevention and Management of Post Dural Puncture Headaches. Mexican College of Anesthesiologists. Mexico City, Mexico. July 2–6, 2019.

**Steele P, Prasad R, Nanda M**. Quadratus Lumborum Blocks Are Associated with Lower Opioid Consumption and Reduced Hospital Length of Stay in Donor Nephrectomy Patients. Poster Presentation: 44th Annual Regional Anesthesiology (ASRA) and Acute Pain Medicine Meeting. Las Vegas, NV. April 11, 2019.

Walter Tunnessen Award for Best Clinical Science Research, Hillary Spangler, MD; Internal Medicine – Pediatrics Resident. Contamination rates using sheather versus unsheathed syringe plungers. MENTOR:

**Concetta Lupa, MD**

**Kolarczyk L**. “Enhanced Recovery After Surgery.” UNC Institute for Healthcare Quality Improvement Speaker Series: Sustainment and Spread. June 26, 2019.

**AWARDS & RECOGNITION**

**Susan Martinelli** (Interviewee): Online: American Medical Association. “Family days help loved ones understand anesthesiology’s stressors.” April 2019. Senior News Writer: Sara Berg.

**Sarah Linnstaedt** (Interviewee): “Why the sexes don’t feel pain the same way.” 2019 Mar;567(7749):448–450. doi: 10.1038/d41586-019-00895-3. Author: Amber Dance.

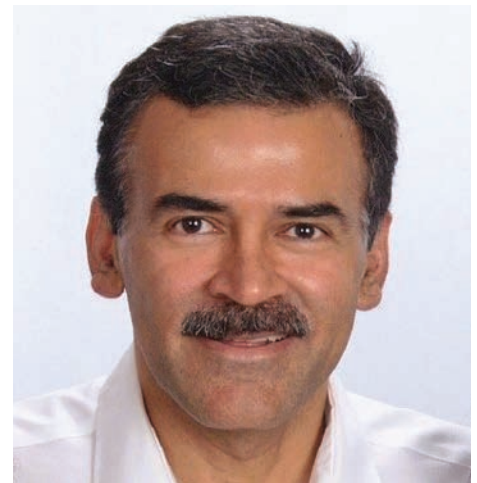
**Dr. Janey Phelps**: 2019 Blike/Cravero International Pediatric Sedation Advocacy Award. Society for Pediatric Anesthesia (SPA-AAP) 2019 Meeting. March 2019. Aurora, CO.

**Top Abstracts Award**: “Preoperative Erector Spinae Plane (ESP) Blocks as Opioid-Sparing Analgesia for Cardiac Patients Undergoing Primary Sternotomy: Outcomes of a Pilot Project.” Authors: **Huber C** (Presenter), **Ezimora C, Nanda M, Teeter E, Bhatia M, Kolarczyk L**. 41<sup>st</sup> Annual Society of Cardiovascular Anesthesiologists Meeting & Workshops. May 2019. Chicago, IL.

**Congratulations to our 2018–2019 Honor Roll**

**Top UNC Anesthesiology Clinician-Researchers**

- |                   |                  |
|-------------------|------------------|
| Harendra Arora    | Priya Kumar      |
| Meena Bhatia      | Susie Martinelli |
| Rob Isaak         | Kathleen Smith   |
| Lavinia Kolarczyk | Emily Teeter     |



*Professor of Anesthesiology Dr. Harendra Arora  
UNC Anesthesiology Clinician-Researcher of the Year*

# 2019–2020 Upcoming Events

## December 7

**UNC Anesthesiology Holiday Party**  
Governor's Club • Chapel Hill, NC

## December 18

**Academic Medicine Rotation Symposium**  
UNC School of Medicine • Chapel Hill, NC

## January 10

**Triangle CT Conference**  
William & Ida Friday Center • Chapel Hill, NC

## January 11–12

**In-Training Examination (ITE) Review Course**  
UNC School of Medicine • Bondurant Hall (G30)

## March 7

**6th Annual UNC CRNA Anesthesia Meeting**  
Rizzo Conference Center • Chapel Hill, NC

## March 28

**Transition to Practice**  
William & Ida Friday Center • Chapel Hill, NC

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*For more information regarding the events listed, please visit*  
[www.med.unc.edu/anesthesiology](http://www.med.unc.edu/anesthesiology)