

Anesthesiology Residency Program



Welcome

Welcome to the MUSC Department of Anesthesia and Perioperative Medicine!

Congratulations on selecting such a challenging and rewarding specialty in medicine. We are excited you are considering MUSC for your residency training.

Our anesthesia residency offers an integrated 4-year training program (intern year and 3-year residency) that produces excellent anesthesiologists with extensive experience in every area of the field.

We hope you enjoy your digital interview with us. If you have any questions, please let us know.

George J. Guldán, III, M.D.
Residency Program Director
Department of Anesthesia and Perioperative Medicine

Interview Season 2021



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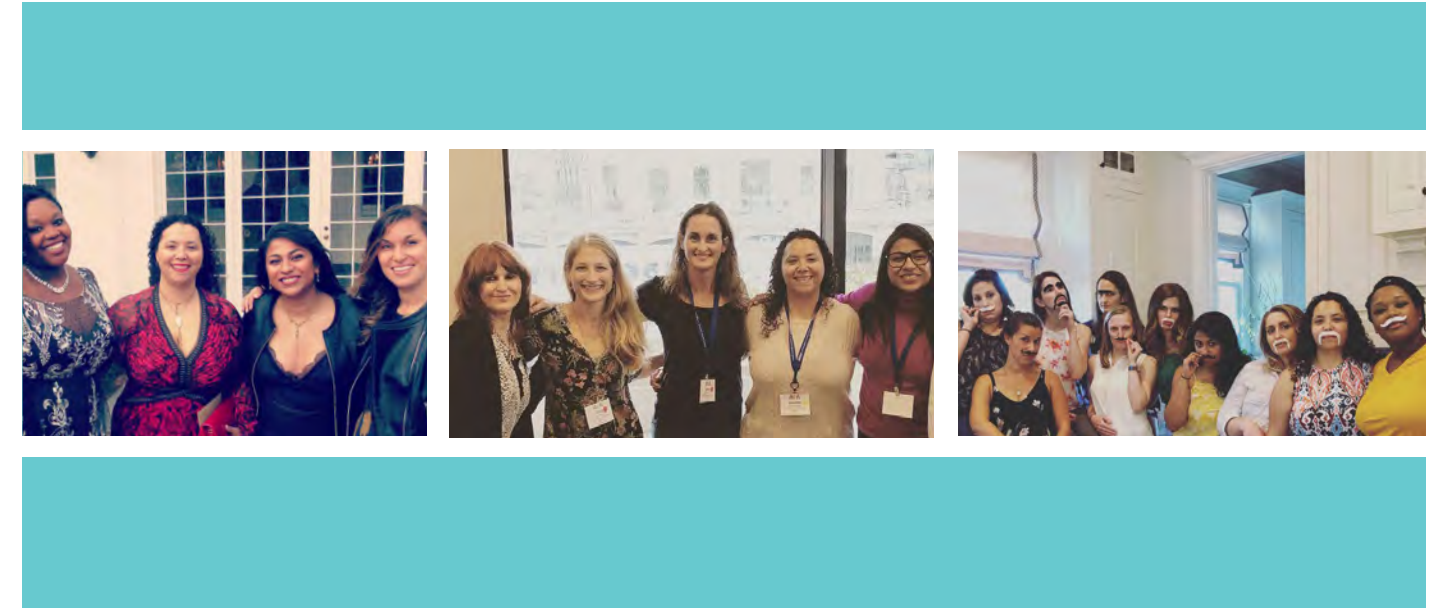
Hello from our Associate Program Director, Dr. Joel Sirianni



I'm thrilled to serve as the Associate Program Director for the Anesthesiology Residency Program at MUSC. As a former MUSC resident, I am passionate about our residency program, resident training and their well-being.

I enjoy working closely with residents through lectures, simulations, call shifts and complex operative cases as a member of the liver transplant and OB anesthesia teams.

Originally from Pittsburgh, I look forward to telling you all about the beaches and restaurants of Charleston and about our amazing residency program that brought me to Charleston in the first place.



Dr. Renuka George is thrilled to serve as the Diversity and Inclusion committee leader for the Anesthesiology Residency Program at the Medical University of South Carolina. Along with educating residents and medical students on the art and practice of anesthesiology, she also considers it her mission to promote diversity and the empowerment of women not just in her own department but in medicine as well.

Dr. George had the benefit of growing up all over the world with a strong physician mother and has seen first-hand how both the women in leadership roles and a diverse work environment can add to the synergy of a department. She is delighted to see such a strong membership in the Women in Anesthesia group within her own department evidenced by monthly dinners, quarterly book clubs and bi-annual events.



Most importantly, Dr. George is grateful that MUSC shares her mission in empowering women and under-represented minorities in medicine.

Renuka George, M.D.
Assistant Professor

General Department Information

The Department of Anesthesia and Perioperative Medicine at MUSC is a highly integrated, collaborative group of adult and pediatric anesthesiologists with all subspecialties represented.

The department is comprised of 75 staff doctors, 60 residents in clinical anesthesia training, 2 cardiothoracic anesthesia fellows, 2 critical care anesthesia fellows, 2 regional and acute pain anesthesia fellows, and 83 nurse anesthetists, all of whom are committed to providing optimal care to adult and pediatric patients requiring anesthesia, acute or chronic pain management, and/or critical care management. Members of the department also conduct basic and clinical research, teach undergraduate and postgraduate medical courses, and lead CME programs.

Each year, MUSC anesthesiologists supervise approximately 42,000 cases assisted by residents and nurse anesthetists. This large number of cases, integrated with ongoing research and education, results in our residents obtaining wide-ranging expertise in the anesthetic, pain, and critical care management of patients of all ages.

Department members are organized into subspecialty groups, each focusing on a segment of anesthesiology, including adult cardiothoracic, pediatric cardiothoracic, obstetric, transplant, general pediatric, critical care, acute pain, and chronic pain services.

Our educational program for the residency is based on an 18-month cycle with a different educational topic/focus each month (e.g. CT, trauma, neuro, etc). The design of this program is such that our residents receive didactic training in each of these 18 high-yield areas twice during their residency. This is in addition to the specific clinical and didactic training received while on each rotation.

More specifics about the scheduled components of our educational system are outlined in the upcoming pages. Of course, all of this occurs to facilitate learning during our clinical rotations with daily teaching from faculty during patient care in the OR, ICU, and clinics.

“During my residency, I developed great relationships with my co-residents, faculty, nurses, and staff. I felt that MUSC is an encouraging environment and that the department truly wants to see me succeed. I am happy to continue my training as a Regional fellow among providers who I respect and enjoy working with.”



Tara Kelly, M.D.
Residency Program Graduate
2020 Regional Anesthesia Fellow
2021 Regional Anesthesia Attending

2021-2022 Resident Block Schedule

Our resident schedule is divided between 13 blocks per year and emphasizes robust and comprehensive rotations through ORs, clinics, ICUs, Labor and Delivery units, and non-OR anesthesia sites to ensure our residents achieve clinical excellence in all aspects of perioperative care. CA-1 rotations focus on teaching residents core anesthetic concepts and skills, as well as providing an introduction to regional anesthesia, chronic pain, obstetric anesthesia, and postoperative care. During the CA-2 year, residents are exposed to advanced anesthesia subspecialties including pediatrics, cardiothoracic anesthesia, neuroanesthesia, and vascular anesthesia. During the final CA-3 year, our residents are given the flexibility to spend multiple months refining skills in specialties of interest while continuing to perfect their perioperative skillset in preparation for successful careers in either academic or private practice upon graduation.

CA1	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12	Block 13
	7/1 - 8/1	8/2 - 8/29	8/30 - 9/26	9/27 - 10/24	10/25 - 11/21	11/22 - 12/19	12/20 - 1/16	1/17 - 2/13	2/14 - 3/13	3/14 - 4/10	4/11 - 5/8	5/9 - 6/5	6/6 - 6/30
Cadogan	Gen Main	Pain	Urology	PACU/Gen Main	MSICU	Gen Main	VA	Spine	Airway	OB	Vasc/GenART	Regional	Ortho
Chambers	MSICU	Urology	VA	Regional	Gen Main	OB	Ortho	Gen Main	PACU	Vasc/GenART	Spine	Pain	Airway
Chedister	Spine	Regional	Pain	Gen Main	OB	Gen Main	Airway	Vasc/GenART	MSICU	Gen Main/PACU	Ortho	ART CT	Urology
Glispie	Pain	Ortho	Gen Main	VA	Spine	Airway	Vasc/GenART	Gen Main	OB	Regional	Urology	PACU	MSICU
Lee	Regional	Ortho	Spine	Urology	Gen Main	Vasc/GenART	Pain	MSICU	Gen Main	PACU/Gen Main	OB	Airway	VA
Mappus	VA	Gen Main	Regional	OB	Vasc/GenART	Gen Main	Airway	Urology	MSICU	Spine	PACU	Ortho	Pain
Meinzer	Gen Main	PACU	Spine	Ortho	Regional	Pain	OB	Gen Main	Vasc/GenART	Urology	Airway	VA	MSICU
Miller	OB	Vasc/GenART	MSICU	Gen Main	Airway	Spine	Urology	Regional	Pain	Gen Main	Ortho	Peds I	PACU
Oluwole	Gen Main	OB	Urology	Pain	Gen Main	Regional	MSICU	PACU	Spine	Ortho	VA	Vasc/GenART	Airway
Oprisan	Urology	MSICU	PACU	Gen Main	Spine	Ortho	Regional	Pain	OB	VA	Vasc/GenART	Airway	ART CT
Park	Gen Main	VA	Ortho	Gen Main/PACU	Urology	MSICU	Pain	OB	Regional	Airway	Spine	Gen Main	Vasc/GenART
Reardon	PACU	Gen Main	Vasc/GenART	MSICU	Pain	Airway	Spine	Ortho	VA	Urology	Regional	Gen Main	OB
Stockinger	Vasc/GenART	Gen Main	Regional	Pain	PACU	Urology	Spine	VA	Ortho	MSICU	Airway	OB	Peds I
Taylor	Gen Main	Regional	OB	Spine	Ortho	VA	PACU	Vasc/GenART	Pain	MSICU	Urology	Gen Main	Gen Main
Tomlinson	Ortho	Spine	Gen Main	Vasc/GenART	VA	PACU	Gen Main	Airway	Urology	OB	Pain	MSICU	Regional
CA2	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12	Block 13
	7/1 - 8/1	8/2 - 8/29	8/30 - 9/26	9/27 - 10/24	10/25 - 11/21	11/22 - 12/19	12/20 - 1/16	1/17 - 2/13	2/14 - 3/13	3/14 - 4/10	4/11 - 5/8	5/9 - 6/5	6/6 - 6/30
Andresen	Regional	ART CT #1	ENT	Flex	VA CT	Neuro	Peds I	Peds II	CVICU	ART CT #2	AdvVasc/Thor	OB	MSICU
Coon	ART CT #1	Regional	Neuro	CVICU	Peds I	Peds II	ART CT #2	MSICU	Flex	OB	VA CT	ENT	AdvVasc/Thor
Eason	Gen Main	Flex	MSICU	Peds I	Peds II	ART CT #2	Neuro	CVICU	OB	Regional	ENT	AdvVasc/Thor	ART CT #3
Ellison	Peds I	Peds II	Regional	AdvVasc/Thor	ART CT #1	ENT	CVICU	OB	Neuro	Flex	MSICU	VA CT	ART CT #2
Fox	VA CT	Peds II	AdvVasc/Thor	ENT	Neuro	ART CT #1	OB	Regional	MSICU	Gen Main	CVICU	ART CT #2	Flex
Geating	OB	AdvVasc/Thor	VA CT	ART CT #1	Flex	Peds I	Peds II	CVICU	Regional	ART CT #2	Neuro	MSICU	ENT
Gillians	ENT	Gen Main	Regional	MSICU	ART CT #1	CVICU	AdvVasc/Thor	Peds I	Peds II	VA CT	ART CT #2	Neuro	OB
Huntzinger	AdvVasc/Thor	ENT	Pain	ART CT #1	OB	Regional	VA CT	Peds I	Peds II	CVICU	ART CT #2	Neuro	MSICU
Iglesias	MSICU	VA CT	ART CT #1	Flex	ENT	OB	Regional	ART CT #2	Peds I	Peds II	CVICU	AdvVasc/Thor	Neuro
Kaye	ENT	ART CT #1	CVICU	VA CT	AdvVasc/Thor	MSICU	Pain	Neuro	Regional	Peds I	Peds II	OB	ART CT #2
Mahajan	CVICU	Peds I	Peds II	OB	MSICU	Flex	ART CT #2	VA CT	ENT	AdvVasc/Thor	Gen Main	Regional	Neuro
Moore	Neuro	ART CT #1	OB	Regional	Flex	VA CT	ENT	ART CT #2	AdvVasc/Thor	MSICU	Peds I	Peds II	CVICU
Regalado	ART CT #1	CVICU	Peds I	Peds II	MSICU	AdvVasc/Thor	Flex	ENT	ART CT #2	Neuro	OB	ART CT #3	Regional
Revilla	Neuro	OB	Pain	ART CT #1	CVICU	ENT	MSICU	AdvVasc/Thor	VA CT	ART CT #2	Regional	Peds I	Peds II
Vranian	Peds II	MSICU	ART CT #1	Pain	Regional	OB	Neuro	Gen Main	ART CT #2	ENT	AdvVasc/Thor	CVICU	VA CT
CA3	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8	Block 9	Block 10	Block 11	Block 12	Block 13
	7/1 - 8/1	8/2 - 8/29	8/30 - 9/26	9/27 - 10/24	10/25 - 11/21	11/22 - 12/19	12/20 - 1/16	1/17 - 2/13	2/14 - 3/13	3/14 - 4/10	4/11 - 5/8	5/9 - 6/5	6/6 - 6/30
Aspiri	Peds	Flex	Preop	ART Pain	MSICU	Adv Surg	Peds CT	CT/echo	OB	Peds	Regional	TTP	Global Hth
Beall	Adv Surg	Regional	CT/echo	OB	TTP	Regional	NORA	Flex	Peds	Preop	MSICU	ART Pain	Neuro
Boehmer	MSICU	Peds	CT/echo	Adv ART	Regional	OB	Regional	Preop	Flex	TTP	ART Pain	Adv Surg	NORA
Carter	OB	TTP	Peds	MSICU	CT/echo	Regional	Adv Surg	NORA	ART Pain	Flex	Neuro	Regional	Preop
Cicardo	NORA	ART Pain	Adv Surg	CT/echo	Preop	Research	Adv ART	MSICU	TTP	Peds	OB	Regional	Flex
Colhoun	Adv ART	Preop	OB	Research	NORA	TTP	Peds	ART Pain	Adv Surg	Regional	Flex	MSICU	CT/echo
Felton	TTP	Adv Surg	MSICU	Regional	Preop	Peds	Flex	NORA	Regional	OB	TTP	CT/echo	ART Pain
Graves	ART Pain	MSICU	TTP	Regional	ART CT	CT/echo	Preop	TTP	Peds	Adv Surg	CT/echo	ART CT	Flex
Headen	Regional	OB	Adv Surg	Flex	CT/echo	MSICU	ART Pain	Regional	Preop	Research	Peds	NORA	TTP
Johnson	Preop	CT/echo	ART CT	TTP	Adv Surg	Flex	Regional	Peds	ART CT	ART Pain	NORA	OB	MSICU
Kennis	CT/echo	Adv ART	NORA	Preop	Peds	ART Pain	MSICU	TTP	Regional	Neuro	Adv Surg	Flex	OB
Kofoed	Flex	Regional	ART Pain	CT/echo	OB	Preop	TTP	Regional	MSICU	NORA	ART CT	Peds	Adv Surg
Papadea	MSICU	Research	Flex	Adv Surg	ART Pain	NORA	OB	Peds	CT/echo	ART CT	Preop	TTP	Regional
Stafford	Regional	NORA	ART Pain	Flex	OB	Adv ART	Research	Adv Surg	MSICU	Regional	Preop	Adv Surg	Peds
Winkles	TTP	MSICU	Regional	Peds	Flex	Research	CT/echo	OB	NORA	ART CT	ART Pain	Adv Surg	Preop

Intern Lecture Series

Our Intern Lecture Series is organized by Dr. Ryan Wilson. Our interns meet once every two weeks for lectures given by our Anesthesia staff to review common diseases encountered throughout intern year and discuss anesthetic considerations related to these conditions. The lecture series is based from Newman’s Perioperative Medicine: Managing for Outcome and Stoelting’s Anesthesia and Co-Existing Disease. Intern year focuses on rotations that will help prepare residents to transition patient care into the OR and pass the new ABA Basic Written Exam taken at the end of the CA-1 year.

Topic	Newman Chapters	Faculty Lecturer
Intern Lecture: ICU Overview	None	Hannah Bell, MD
Intern Lecture: Pain Management	41 (N)	Marty Burke, MD
Intern Lecture: Perioperative Management of Renal Failure	19 (N)	Ryan Wilson, MD
Intern Lecture: Dysrhythmias	8 (S) & 16 (N)	Jared McKinnon, MD
Intern Lecture: Ischemic & Valvular Heart Disease	5(S) & 13(N) and 6(S) & 15(N)	George J Guldán, MD
Intern Lecture: Preserving Renal Function	22 (S) & 9 (N)	Joseph Abro, MD
Intern Lecture: Peripheral Vascular Disease	12 (S)	Chris Heine, MD
Intern Lecture: Treatment of Acute Oliguria	18 (N)	Ryan Wilson, MD
Intern Lecture: Ventilator Management	None	Chris Heine, MD
Intern Lecture: Management of CVA	13 (S) & 8 (N)	Tracy Wester, MD
Intern Lecture: Spinal Cord Protection	23 (N)	Chris Wolla, MD
Intern Lecture: GI Morbidity (Liver, Pancreas)	17 & 18 (S) & 25 (N)	Tara Kelly, MD
Intern Lecture: Anesthesia for GI Surgery	33 (N)	Kathryn Bridges, MD
Intern Lecture: Endocrinology	23 (S) & 40 (N) (Endocrine portion of chapter)	Catherine Tobin, MD
Intern Lecture: Bleeding & Transfusion	27 (N)	Savannah Hurt, MD
Intern Lecture: Fluids, Electrolytes, Acid/Base	21 (S) & 40 (N) (Electrolyte portion of chapter)	Jeffrey McMurray, MD
Intern Lecture: Anesthesia for Peds	30 (S)	Gabrielle Musci, MD
Intern Lecture: Hematologic Disorders	24 (S)	Clinton Pillow, MD
Intern Lecture: OB	31 (S) & 29-30 (N)	Katie Herbert, MD
Intern Lecture: Psych & Substance Abuse	29 (S)	Chris Heine, MD
Intern Lecture: Infectious Diseases	26 (S)	Natalie Barnett, MD
Intern Lecture: Pulmonary Disease	2-3 (S) & 10 (N)	Chris Heine, MD



Intern Transition (CA-0) and Resident Didactic Schedule

Our CA-0 Lecture Series starts in the last month of the intern year as an introduction to anesthesia with daily didactic and/or simulation sessions that are 2-4 hours in length. Basics of Anesthesia (“Baby Miller”) is covered during this introductory series, along with several simulation experiences covering everything from machine check-out to OR Crisis Management. It is an intense and focused preparation to transition our residents from their intern year to the OR. New residents are also paired 1-on-1 with a senior resident each day during this time.

In July, the series transitions to a weekly lecture series on Wednesday afternoons from 4-5 P.M to progress through Clinical Anesthesiology by Morgan and Mikhail. The transition from the intense June lecture series to the CA-1 lecture series has been developed to allow CA-1 residents to have a very strong clinical knowledge base that will allow them to succeed on the ABA’s new board exam structure, which includes the ABA Basic Written Exam at the end of CA-1 year, exemplified by our 100% board pass rates for the past five years.

Our didactic program culminates during CA-2 and CA-3 years in weekly online seminars with interactive comprehension questions, as well as frequent guest lecturers from prominent professors at other institutions that provide our residents with outside perspectives to supplement our learning experience. Our robust educational program ensures our residents are sufficiently prepared for both the ABA oral exam and the ABA advanced examination after graduation, once again evidenced by our 100% pass rate for the past five years.

TOPIC	CHAPTERS	FACILITATOR
Pharmacy Issues/Acudose		L. McLeroy / E. Thomas
Review of Resident Handbook and Expectations	Resident Handbook	Guldán, Chiefs
Machine Checkout, Monitors, Belmont, and Level 1	BOA Ch 15	Jamie Sayers
Maintenance Lecture	BOA Ch 7/14/20	Tobin
Induction Lecture	BOA 8/9/11	Brewbaker
BOA Chapter 30 Lecture	Basics of Neuroanesthesia & Neurophysiology; BOA Ch 30	Whiteley
Emergence Lecture		Gallagher
Intro to Ultrasound		Bolin
BOA Chapter 10/17 Lecture	Local Anesth/Neuraxial Anesthesia	Klein
Antibiotics, Supplies and Fiscal Responsibility	BOA Ch 46	Clark
BOA Chapter 25 Lecture	Cardiac Disease; BOA Ch 25	Heine
BOA Chapter 5/6 Lecture	Cardiopulm Phys & Autonomics; BOA Ch 5/6	Heine
BOA Chapter 13/14 Lecture	Pre-op Eval & Choice of Anesthetic; BOA Ch 13/14 and Appendix 1	Bridges
BOA Chapter 39/40 Lecture	PACU and Acute Post-op Pain; BOA Ch 39/40 and Appendix 3	Stoll
Basic Airway Mgmt	BOA 16	Schaefer
Point of Care Ultrasound		Guldán, George, Pecha, McMurray
BOA Chapter 29 Lecture	Endocrine and Nutritional Disease; BOA Ch 29	Barrett
BOA Chapter 27 Lecture	Chronic Pulm Disease; BOA Ch 27	R Wilson
BOA Chapter 23/24 Lecture	Fluid Mgmt and Transfusion; BOA Ch 23/24	Guldán
BOA Chapter 19/20 Lecture	Positioning, Monitors, FOB setup; BOA Ch 19/20 and Appendix 2	Smith
BOA Chapter 21/22 Lecture	Acid-Base and Hemostasis; BOA Ch 21/22	R Wilson
Wearing Masks Lecture		Guldán
Chief Lecture		Chiefs

CA-1 Lecture Series

CA-1 Lecture Topic	Chapter(s)	Faculty Lecturer
THE BASICS: PERIOPERATIVE CARE, AIRWAY, ANESTHETIC EQUIPMENT & MONITORS		
Patient Preop and Handoff PBL		Ryan Smith, MD
Post Anesthesia Care	19	Natalie Barnett, MD
Perioperative Emergencies and ACLS	55	Mamikon Gukasov, DO
Airway Management	56	Marc Hassid, MD
Fluid Management & Transfusion	51	Joel Sirianni, MD
CLINICAL PHARMACOLOGY		
Anesthesia Machine & Technology	4	N. Robert Harvey, MD
Nonvolatile Anesthetic Agents	10	P. Ryan Wilson, MD
Inhalation Anesthetics	8	Ryan Smith, MD
Local Anesthetics; Adjuncts to Anesthesia	16,17	Clinton Pillow, MD
Neuromuscular Blocking Agents	11	Jennifer Matos, MD
Anticholinergic Drugs; Cholinesterase Inhibitors	12,13	Carey Brewbaker, MD
Peripheral Nerve Blocks; Anesthesia for Orthopedic Surgery	46, 38	William Barrett, DO
Spinal, Epidural, & Caudal Blocks	45	Andrew Klein, MD
PHYSIOLOGY, PATHOPHYSIOLOGY, & ANESTHETIC MANAGEMENT		
Respiratory Physiology: The Effects of Anesthesia	23	Patrick Britell, MD
Anesthesia for Patients with Respiratory Disease	24	Brad Eastman, DO
Cardiovascular Physiology & Anesthesia	20	Hannah Bell, MD
Adrenergic Agonists & Antagonists; Hypotensive Agents	14,15	Jack Conidrey, MD
Hepatic Physiology; Anesthesia for Patients w/ Liver Disease	32,33	Joel Sirianni, MD
Anesthesia for Patients with Cardiovascular Disease	21	Toby Steinberg, MD
Acid-Base Balance; Renal Physiology & Anesthesia	50, 29	Jared McKinnon, MD
Anesthesia for the Trauma Patient	39	Burke Gallagher, MD
Anesthesia for patients with neuromuscular and endocrine disease	34,35	TBA
Anesthetic Complications	54	Andrew Fisher, MD
Anesthesia for Patients with Kidney Disease	30	Savannah Hurt, MD
Maternal And Fetal Physiology; Obstetric Anesthesia	40,41	Michael Marotta, MD
SPECIALTY ANESTHESIA		
Geriatric Anesthesia	43	Savannah Hurt, MD
Anesthesia for Neurosurgery	27	Robert Mester, MD
Anesthesia for Cardiovascular Surgery	42	George Whitener, MD
Obstetric Anesthesia PBL	41	Abhinava Madamangalam, MBBS
Pediatric Anesthesia PBL	22	Amanda Redding, MD
Anesthesia Review/Jeopardy	58	Travis Pecha, MD
Independent Study Preparation for ABA Basic Exam (APR-JUN)		
Basic Statistics for the Boards		Bethany Wolf, PhD

CA-2/3 Lecture Series

Most CA-2/3 lectures will take place on Brightspace, MUSC's online learning platform. However, some do take place in person. Please note, below example not full rotation calendar or current year's calendar, as all didactics have shifted to streaming due to COVID-19.

TOPIC	CHAPTERS
CHRONIC PAIN	
Sympathetic Nerve Blocks	Ch.26
Principles of Chronic Pain Management	
Opioids	Barash Ch.19
Chronic Pain Management	Ch.58
PHYSIOLOGY/PHARMACOLOGY	
Abnormalities of Cardiac Conduction and Cardiac Rhythm PBLD	Stoelting Ch.4
Respiratory Function in Anesthesia PBL	Barash Ch.28
Adrenal Dysfunction PBLD	Stoelting Ch.16
OB ANESTHESIA	
What's New in OB Anesthesia	
Management of High Risk Parturients & Anesthetic Implications	Barash Ch.42
REGIONAL ANESTHESIA	
Advanced Regional Anesthesia Techniques	
Update on Lower Extremity Blocks	Ch.35
Acute Pain Management in the Opioid Dependent Patient	Barash Ch.56
EVIDENCE-BASED MEDICINE/RESEARCH	
Pregnancy-Associated Diseases	Stoelting Ch.23
Abnormalities of Cardiac Conduction and Cardiac Rhythm PBLD	Stoelting Ch.4
Cardiopulmonary Resuscitation in the Perioperative Period	Barash Ch.58
Intravenous Anesthetics	Barash Ch.18
SAFETY/PROFESSIONALISM	
Post Anesthesia Recovery	Barash Ch.55



Simulation, In-House Workshops and Mock Orals

Simulation

Our residency program offers a robust simulation experience for our residents. We offer a high-fidelity simulation ACLS course to our incoming interns just prior to the start of their residency. This experience is repeated throughout residency as our CA-2 and CA-3 residents are the CodeTeam Leaders while taking call. At the end of the intern year, Dr. Julie McSwain leads the interns through an introduction to the OR including machine check-out, general case management, and basic airway techniques. Dr. John Schaefer also leads our interns into a more robust airway simulation course with real-time diagnostics and performance measures. During the CA-1 year, advanced Fiberoptic Bronchoscopy and Difficult Airway Management courses are presented in the Simulation Center. These courses are again repeated during subsequent years. Obstetric Anesthesia simulations are also provided to the CA-1, CA-2 and CA-3 at the beginning of each OB month. This facilitates managing and developing real time strategies for both common and uncommon anesthetic emergency management. Crisis Resource Management courses are half-day experiences that cover a broad scope of perioperative emergencies. The faculty at MUSC is actively involved in ongoing simulation research which provides opportunities to further utilize our state of the art facility. Additionally, Dr. Alan Finley has developed a comprehensive course that utilizes our advanced TEE simulator in conjunction with patient ECHO exams. This not only ensures our graduating residents are competent in basic TEE examinations, but also prepares them to pursue their Basic TEE Certification if desired after graduation.

In-House Workshops

In addition to the above didactic and simulation training, there are several in-house workshops throughout the year. The CT Anesthesia division holds a yearly alternating cardiac wet lab with heart dissection and introduction to TEE workshop. Within the Obstetric Anesthesia division, Dr. Latha Hebbar holds a yearly obstetric hemorrhage workshop to improve our ability to estimate blood loss. Basic vascular ultrasound guided workshops are held throughout the year by various staff and upper level residents.

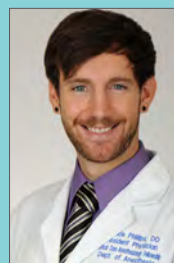
Our Regional Anesthesia division puts on workshops each year to guide residents in the use of ultrasound for peripheral nerve blocks. Since 2015, we have held an IV Starting Workshop for medical students taught by residents.

Mock Oral Exams

One of the final components of our educational series is our biannual mock oral exams. These sessions are planned and guided by our current ABA Oral Board Examiners; Dr. Carlee Clark, Dr. Larry Field, Dr. Sylvia Wilson and Dr. Deborah Romeo. These sessions progress in difficulty from the CA-1 to CA-3 year. Each experience is set up in a standard oral board exam format to prepare the residents for success.

“The residency training I received at MUSC thoroughly prepared me for fellowship.

The diversity of cases rivals any institution and the faculty are incredible. All of this is woven into an excellent work-life balance that left me feeling fulfilled both academically and personally.”



Maxie Phillips, D.O.

Residency Program Graduate
2020 CC Anesthesia Fellow
2021 CT Anesthesia Fellow

Resident Call Schedule

The resident call structure is organized to prepare residents for independent practice both in primary anesthetic delivery and supervisory capacities. Tiered call pools allow residents to practice in stepwise autonomy as they progress in functional capability until they are able to organize OR staffing, supervise more junior residents, and handle clinical OR and non-OR emergencies at the level of an attending. Our stepwise call pool ensures sufficient preparation for any practical anesthetic delivery setting after graduation from residency.

CA-1

- Main OR in-house call (Q 0.85/week for the year)
- No call months (4): MSICU/OB/PACU/VA Hospital

CA-2/3

- Combined call pool (Q 0.75/week for the year)
- 3 Residents on call each night
- CA-2 covers OB service and either a CA-2 or CA-3 covers the Heart Hospital (ART)
- After completion of cardiothoracic and pediatric rotations, senior residents enter call pool of Main OR oversight of CA-1s and additional CRNAs

CA-2/3 Liver Transplant Home Call (Moonlighting Stipend)

- Combined call pool. Total of 2 weeks of carrying the pager per year
- Financial reimbursement during CA3 year

CA-2/3 Optional ICU Moonlighting

- Residents may sign up to cover the ICU on the weekends, 12 hour shifts at \$70/hour.

CA-3 Elective Rotations

Our residents are able to attain their required case numbers with ease, which allows for elective rotations during the CA-3 year. Electives that residents frequently include are Transition to Practice (anesthesia supervision of 2-4 ORs), Research, Interventional Pain, TEE, and Global Health Experience. In addition, residents are encouraged to apply for other electives including the ASA Anesthesiology Policy Research in Political Affairs rotation in Washington, D.C.

Global Health Experiences

Since 2015, the department has partnered with Palmetto Health Initiative (PHI) to send residents to Nicaragua to perform anesthesia for orthopedic cases. The anesthesia includes general anesthesia, neuraxial and regional anesthesia. PHI is a Charleston based non-profit that has a significant affiliation agreement with MUSC. Additionally, our faculty organizes extracurricular international anesthesia opportunities for interested residents and staff, including a current initiative to organize an anesthesia-directed trip to India. We are excited to be given the tremendous opportunity to give back as well as work side by side with our faculty in an international environment.



Resident Stipends

Resident Stipends (July 2021 to June 2022)

PGY-1 | \$54,834.00 PGY-2 | \$56,698.00 PGY-3 | \$59,155.00 PGY-4 | \$61,022.00

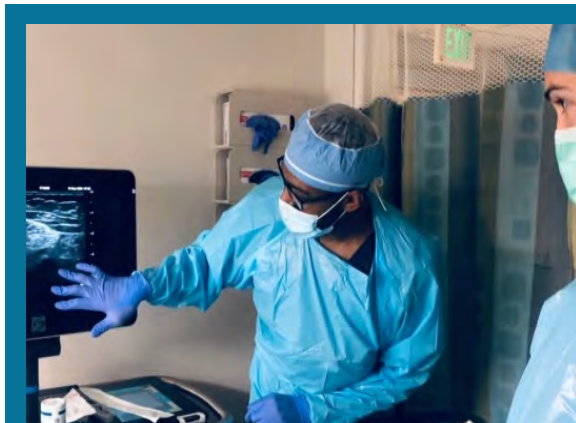
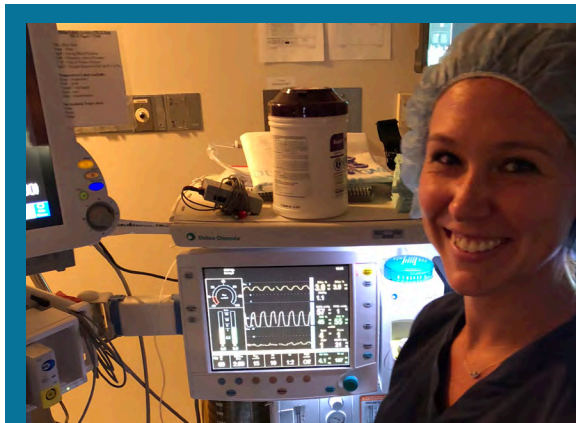
Benefits (Overview)

Residents in the MUSC Department of Anesthesia and Perioperative Medicine receive the following benefits:

- 1. Full health, dental and disability insurance coverage (coverage for spouse and family is available as well)
- 2. Department-issued iPhones for inter-department communication and education
- 3. CA-1 through CA-3 years: \$250 education resource allowance/ year
- 4. USMLE Step 3 fee paid by department (\$800)
- 5. ABA Basic Written Exam taken as CA-1 (\$750)
- 6. ABA Advanced Written Exam after graduation (\$750)
- 7. Travel allowance to a major conference each of the 3 clinical anesthesia years (CA-1 \$800, CA-2 \$1,500, CA-3 \$1,500)
- 8. Additional travel allowance up to one additional conference per year if presenting research
- 9. Additional funding for a CA-3 Board Review Course (\$500)
- 10. Yearly SC medical license paid by department (\$500)
- 11. ASA Dues, ACLS, PALS, In-Training Exams are paid by our department
- 12. Parking garage monthly dues paid by department (\$55/month)
- 13. Fitness Center Membership paid by department (\$70/month)
- 14. Truelearn Anesthesia QBank annual membership (\$299)

Moonlighting Policy

Internal moonlighting opportunities are available to residents in their CA- 2 and CA-3 year. Twelve hour shifts during the weekend in our MSICU are available and approved by ACGME. Pay is currently \$70/hr. External moonlighting is also approved once residents obtain a permanent license in the State of South Carolina.



RESIDENT CLASS OF 2021

Where are they now?



BACK ROW FROM LEFT TO RIGHT

- Krushikkumar Patel, DO** Joining Private Practice in Savannah, GA
- Mark Abumoussa, MD, MS** Pain Anesthesia Fellow at Alleghany Health Network, Pittsburgh, PA
- Andreea Lazar, MD** CT Anesthesia Fellow at MUSC, Charleston, SC
- Eugenia Pugach, DO** Anesthesiologist at Navicent Health, Macon, GA
- Ellen Legare Hay, MD** Regional Anesthesia Fellow at MUSC, Charleston, SC
- William Daniel Young, MD** Critical Care Anesthesia Fellow at MUSC, Charleston, SC
- Armando Marcos Aguilera, MD** Regional Anesthesia Fellow at OHSU, Portland, OR
- Christopher Michael Fatora, MD** Regional Anesthesia Fellow at MUSC, Charleston, SC
- Metul Ketan Shah, MD** Pain Anesthesia Fellow at Weill Cornell, New York, NY
- Jaime Michele Adams, MD** Pediatric Anesthesia Fellow at Children’s National Hospital, Washington DC
- Andrew Adams Dudas, MD** Pain Anesthesia Fellow, University of Kentucky, Lexington, KY

FRONT ROW FROM LEFT TO RIGHT

- Parin Garg, MD** Joining Private Practice in Newport News, VA
- Mark Abumoussa, MD, MS** Pain Anesthesia Fellow at Alleghany Health Network, Pittsburgh, PA
- Keeland Bruné Bankhead, MD** Joining Anesthesia Faculty at Emory, Atlanta, GA
- William Charles Sumner, MD** Critical Care Anesthesia Fellow at Emory, Atlanta, GA

Not Pictured

- Ana Clara Castro, DO** Joining Private Practice in Savannah, GA








Anesthesia and Perioperative Medicine Residency

Interviewing Faculty 2021

				
Joseph Abro, MD	Eric Bolin, MD	Martin Burke, MD	Carlee Clark, MD	Burke Gallagher, MD
Assistant Professor of Anesthesia and Perioperative Medicine, PACU Resident Rotation Director, Transplant Anesthesia Attending	Associate Professor of Anesthesia and Perioperative Medicine, University Hospital Medical Director, Regional Acute Pain Anesthesia Attending	Assistant Professor of Anesthesia and Perioperative Medicine, Pain Anesthesia Attending	Associate Professor of Anesthesia and Perioperative Medicine, Chief, Anesthesia Integrated Clinical Center of Excellence (ICCE), Vice Chair of Clinical Operations, Critical Care Anesthesia Attending	Assistant Professor of Anesthesia and Perioperative Medicine, Director of Fourth Year Anesthesia Medical Student Education, General Anesthesia Attending
abro@muscd.edu	bolin@muscd.edu	burkm@muscd.edu	clarca@muscd.edu	gallagbu@muscd.edu
				
GJ Guldán, MD	David Gutman, MD, MBA	Latha Hebbar, MD	Jennifer Matos, MD	Nicole McCoy, MD
Associate Professor, Residency Program Director of Anesthesia and Perioperative Medicine, The Joanne M. Conroy MD, Endowed Chair for Education & Leadership, Cardiothoracic Anesthesia Attending	Assistant Professor of Anesthesia and Perioperative Medicine, OB Anesthesia Resident Rotation Director, OB Anesthesia Attending	Professor of Anesthesiology, Chair of Resident Clinical Competency Committee, Vice Chair for Faculty Development, OB Anesthesia Attending	Assistant Professor of Anesthesia and Perioperative Medicine, Regional Acute Pain Anesthesia Attending	Assistant Professor of Anesthesia and Perioperative Medicine, Peds Anesthesia Attending
guldán@muscd.edu	gutman@muscd.edu	hebbarl@muscd.edu	matos@muscd.edu	mccoyn@muscd.edu

Address for Interviewing Faculty: Medical University of South Carolina, 167 Ashley Avenue, STE 301, Charleston, SC 29425

Anesthesia and Perioperative Medicine Residency**Interviewing Faculty 2021**

				
Julie McSwain, MD	Scott Reeves, MD, MBA	Deborah Romeo, MD	Michelle Rovner, MD	Joel Sirianni, MD
Associate Professor of Anesthesia and Perioperative Medicine, Advanced Surgery Resident Rotation Director, General Anesthesia Attending	The John E. Mahaffey, MD Professor and Chairman Senior Associate Dean for Clinical Affairs Anesthesia and Perioperative Medicine, Peds Cardiac Anesthesia Attending	Assistant Professor of Anesthesia and Perioperative Medicine, Peds Anesthesia Resident Rotation Director, Peds Anesthesia Attending	Assistant Professor of Anesthesia and Perioperative Medicine, Peds Anesthesia Attending	Assistant Professor, Associate Residency Program Director of Anesthesia and Perioperative Medicine, Transplant Anesthesia Attending
mcswainj@musc.edu	reevess@musc.edu	romeod@musc.edu	rovner@musc.edu	sirianni@musc.edu
				
David Stoll, MD	Catherine Tobin, MD			
Professor of Anesthesia and Perioperative Medicine, Transplant Anesthesia Division Director	Associate Professor of Anesthesia and Perioperative Medicine, Director of Third Year Medical Student Anesthesia Education, General Anesthesia Attending			
stollwil@musc.edu	tobinc@musc.edu			

Address for Interviewing Faculty: Medical University of South Carolina, 167 Ashley Avenue, STE 301, Charleston, SC 29425

**Interview Day Itinerary – Full Day**

7:15 am	Group A Applicants Arrive via Zoom
7:30 am – 8:00 am	Welcome & Introduction <ul style="list-style-type: none">• Dr. GJ Guldan – Program Director
8:00 am – 10:00 am	Interviews <ul style="list-style-type: none">• 4 Faculty Members, 1 Chief Resident
10:00 am – 10:30 am	Farewell from Program Director and Q&A with Concierge Residents <ul style="list-style-type: none">• 2 Residents
10:45 am	Group B Applicants Arrive via Zoom
11:00 am – 11:30 am	Welcome & Introduction <ul style="list-style-type: none">• Dr. GJ Guldan – Program Director
11:30 am – 1:30 pm	Interviews <ul style="list-style-type: none">• 4 Faculty Members, 1 Chief Resident
1:30 pm – 2:00 pm	Farewell from Program Director and Q&A with Concierge Residents <ul style="list-style-type: none">• 2 Residents

Living in Charleston

Life in Charleston gives its residents the unique experience of living in a larger city with a small-town feel. The historic avenues, beautiful gardens, and lush landscape make living in this beautiful city a wonderful experience. From exploring the region's beautiful beaches, learning about its rich history, indulging in its celebrated restaurant industry, and experiencing the unique culture that Charleston has to offer, those who are lucky enough to live in Charleston will find that it truly has something for everyone.

Ranked #1 US City by Travel + Leisure Magazine's "World's Best" for seven years in a row.

Ranked "Most Popular City" by Condé Nast Traveler magazine for nine years in a row.

One of the fastest growing mid-sized Metro Economies (U.S. Bureau of Labor Statistics, 2017)

Ranked #3 Best State for Doing Business by the Chief Executive Group

Named "Best Place to Start a Career" by WalletHub

Recognized by National Geographic Travel as a top US community with the most green spaces

Ranked #4 Most Fun Place to Live by US News & World Report



Charleston: Smiling Faces, Beautiful Places

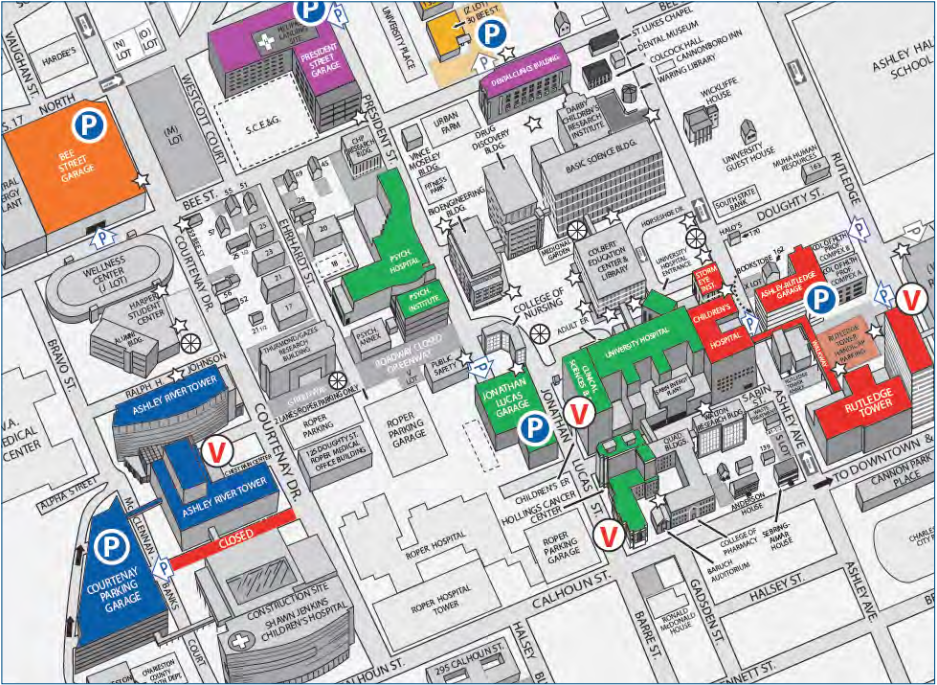


Resident Contacts

CA3-PGY4 Residents			Medical School
Madison	Aspiri	aspiri@musc.edu	University of Virginia School of Medicine
Jerad	Beall	beallj@musc.edu	Univ of N TX Health Science Center at Fort Worth
Drew	Boehmer	boehmer@musc.edu	Univ of N TX Health Science Center at Fort Worth
Taylor	Carter	carterta@musc.edu	LSU School of Medicine in Shreveport
Tripp	Cicardo, III	cicardo@musc.edu	LSU School of Medicine in Shreveport
Edward	Colhoun, V	colhoun@musc.edu	MUSC
Dodson	Felton, III	feltond@musc.edu	MUSC
Matthew	Graves	gravem@musc.edu	Jagiellonian University Medical College
Kendall	Headen	headenk@musc.edu	MUSC
Matthew	Johnson	johnmatl@musc.edu	Alabama College of Osteopathic Medicine
James	Kennis, III	kennis@musc.edu	MUSC
Matthew	Kofoed	kofoed@musc.edu	MUSC
Nicholas	Papadea	papadea@musc.edu	U of S. Carolina Sch of Med Columbia
Clay	Stafford	staffocl@musc.edu	U of S. Carolina Sch of Med Greenville
Blake	Winkles	winklesb@musc.edu	MUSC
CA2-PGY3 Residents			Medical School
Richard	Andresen	andreser@musc.edu	East Carolina University
Grayson	Coon	coong@musc.edu	Wake Forest Univ Sch of Medicine
Stephen	Eason	easonst@musc.edu	University of Virginia School of Medicine
William	Ellison, III	elliisowi@musc.edu	MUSC
Mary	Fox	foxma@musc.edu	MUSC
Daniel	Geating	geating@musc.edu	MUSC
Akayla	Gillians	gillians@musc.edu	MUSC
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Aaron	Kaye	kayaaa@musc.edu	MUSC
Melissa	Mahajan	mahajanm@musc.edu	SUNY Upstate Medical University
Brenden	Moore	moorbren@musc.edu	Univ of N TX Health Science Center at Fort Worth
Chloe	Regalado	regalado@musc.edu	Univ of N TX Health Science Center at Fort Worth
Stephen	Revilla	revillas@musc.edu	Ohio State University College of Medicine
Steven	Vranian, JR	vranian@musc.edu	MUSC
CA1-PGY2 Residents			Medical School
Jared	Cadogan	cadogan@musc.edu	Alabama College of Osteopathic Medicine
Riley	Chambers	chamberi@musc.edu	U of S. Carolina Sch of Med Greenville
Julie	Chedister	jench@musc.edu	MUSC
Terri-Ann	Glispie	glispie@musc.edu	Alabama College of Osteopathic Medicine
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Ornella	Oluwole	oluwoleo@musc.edu	Medical College of Georgia at Augusta University
Andra	Oprisan	oprisan@musc.edu	MUSC
Andrew	Park	parkan@musc.edu	Morehouse School of Medicine
Christopher	Reardon	reardonc@musc.edu	MUSC
Jessica	Stockinger	stockinj@musc.edu	East Carolina University
Cecilia	Taylor	lipman@musc.edu	MUSC
Henry	Tomlinson	tomlin@musc.edu	MUSC
Interns-PGY1 Residents			Medical School
Nolan	Bagnal	bagnalw@musc.edu	MUSC
Dylan	Bieber	ddb203@musc.edu	Indiana Univ School of Med
Ryan	Campbell	campbbra@musc.edu	U of S. Carolina Sch of Med Columbia
Matthew	Holt	holtm@musc.edu	MUSC
William	Irick	irick@musc.edu	MUSC
Jacob	Jarecke	jarecke@musc.edu	U of Nebraska Coll of Med
Farris	Langley	langleel@musc.edu	MUSC
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Davis	Osborn	osbornda@musc.edu	MUSC
Taylor	Ouellette	ouellettm@musc.edu	U of New England Coll of Osteo Med
Robert	Shebiro	shebiro@musc.edu	Campbell Univ School of Osteo Med
Richard	Uhlenhopp	uhlenhopp@musc.edu	U of Iowa Coll of Med
Mollianna	Walker	walkerm@musc.edu	MUSC
Harper	Wilson	wilsohar@musc.edu	Wake Forest Univ Sch of Medicine



MUSC's Campus Map & Program Contacts



Here in the Department of Anesthesia and Perioperative Medicine, we are fortunate to have our wonderful Program Manager, Elizabeth Morrison, and Program Coordinator, Savannah Crocker.

They are a great resource and are glad to speak with you for any questions you may have. We hope you enjoy your time here in Charleston!



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Program Manager
morrieli@musc.edu | 843-792-2185



Savannah Crocker, MED
Program Coordinator
crockers@musc.edu | 843-792-4365



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musc.edu/anesthesia/education

RESIDENCY PROGRAM CONTACTS

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Joel Sirianni, M.D.
Associate Residency Program Director
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THE DEPARTMENT OF ANESTHESIA AND PERIOPERATIVE MEDICINE

The Department of Anesthesia and Perioperative Medicine is committed to the delivery of exemplary, compassionate clinical care; the development of outstanding future clinicians, thinkers and leaders; and the advancement of knowledge through scientific and clinical discovery. Our efforts are guided by our responsibility to patients' well-being, the education of students who represent the future of medicine, and the importance of discovery in the advancement of medicine. We recognize the contributions of each member of the Department of Anesthesia, and we respect and collaborate with colleagues throughout the Medical University of South Carolina to enrich the future of medicine and improve the quality of patient care.

Changing What's Possible