

Anesthesiology Residency Program



2019

An Overview of the Anesthesia Residency Program
musc.edu/anesthesia/education



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 stay in Charleston. If you have any questions or would like to revisit us, please let us know.

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

Interview Season 2019



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Hello from our Associate Program Director, Dr. Renuka George

Dr. Renuka George is thrilled to serve as the Associate Program Director 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.



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 63 staff doctors, 60 residents in clinical anesthesia training, 2 cardiothoracic anesthesia fellows, 1 critical care anesthesia fellow, 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.

“MUSC not only provided me with excellent clinical training that will allow me to become a confident and competent anesthesiologist, but a work-life balance that rivals most other programs.”



Kirsten Dahl, M.D.
Residency Program Graduate,
2019 Regional Anesthesia Fellow

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.

2019 - 2020 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	7/1 - 7/28	7/29 - 8/25	8/26 - 9/22	9/23 - 10/20	10/21 - 11/17	11/18 - 12/15	12/16 - 1/12	1/13 - 2/09	2/10 - 3/08	3/09 - 4/5	4/6 - 5/3	5/4 - 5/31	6/1 - 6/30
Aspiri	Gen Main	Spine	Urology	VA	PACU	MSICU	Gen Main	Regional	Airway	OB	Pain	Gen ART	Ortho
Beall	Spine	PACU	Gen Main	Urology	Pain	Ortho	Regional	Gen ART	VA	MSICU	OB	Airway	Gen Main
Boehmer	Ortho	Gen Main	OB	Regional	Urology	Gen ART	Spine	Pain	Gen Main	VA	PACU	MSICU	Airway
Carter	Regional	Urology	Gen ART	Airway	Gen Main	OB	MSICU	PACU-GM	Pain	Spine	Gen Main	Ortho	Gen Main
Cicardo	Regional	Urology	Pain	Spine	OB	Ortho	Gen Main	Airway	Gen ART	PACU	VA	Gen Main	MSICU
Colhoun	Urology	Pain	Regional	Gen Main	Gen ART	Airway	PACU	MSICU	Gen Main	OB	Ortho	VA	Spine
Felton	OB	Gen Main	MSICU	PACU-GM	Airway	Pain	VA	Urology	Ortho	Gen Main	Spine	Gen ART	Regional
Graves	Gen ART	OB	Urology	MSICU	Ortho	Gen Main	Spine	VA	PACU	Gen Main	Regional	Airway	Pain
Headden	Pain	Gen ART	VA	Regional	MSICU	Gen Main	OB	Spine	Urology	Ortho	Airway	Gen Main	PACU
Johnson	VA	Gen Main	Spine	PACU-GM	Regional	Airway	Ortho	Gen Main	MSICU	Pain	Gen ART	Urology	OB
Kennis	Gen Main	MSICU	Pain	Ortho	VA	Spine	Urology	OB	Regional	Airway	Gen Main	PACU	Gen ART
Kofoed	PACU	Ortho	Spine	Pain	Gen Main	VA	Gen ART	Gen Main	OB	Airway	MSICU	Regional	Urology
Papadea	Gen Main	MSICU	PACU	Gen ART	Spine	Urology	Pain	Ortho	Gen Main	Regional	Airway	OB	VA
Stafford	Gen Main	VA	Ortho	Pain	Gen Main	Regional	Airway	PACU-GM	Gen ART	Urology	OB	Spine	MSICU
Winkles	MSICU	Regional	Gen Main	OB	Ortho	PACU	Airway	Gen Main	Spine	Gen ART	Urology	Pain	ART CT
OMFS	CA-0	Gen Surg	Gen Surg	Gen Surg	Gen Surg	Gen Surg	CA-0	Gen Surg	Gen Surg	Gen Surg	Gen Surg	Gen Surg	Gen Surg

CA2	7/1 - 7/28	7/29 - 8/25	8/26 - 9/22	9/23 - 10/20	10/21 - 11/17	11/18 - 12/15	12/16 - 1/12	1/13 - 2/09	2/10 - 3/08	3/09 - 4/5	4/6 - 5/3	5/4 - 5/31	6/1 - 6/30
Abumoussa	OB	Vascular	Neuro	Pain	ART CT	CVICU	Peds I	Peds II	Regional	VA CT	MSICU	ART CT	ENT
Adams	MSICU	VA CT	Gen Main	OB	ART CT	Neuro	ENT	Vascular	Pain	Regional	ART CT	CVICU	Adv Surg
Aguilera	Vascular	ART CT	Regional	ENT	CVICU	Pain	Neuro	VA CT	Peds I	Peds II	OB	ART CT	MSICU
Bankhead	ENT	OB	ART CT	CVICU	RT/Peds I	Peds II	ART CT	Pain	VA CT	Vascular	Regional	MSICU	Neuro
Castro	RT Peds	Peds II	MSICU	ART CT	Neuro	ENT	Regional	ART CT	CVICU	Pain	VA CT	OB	Vascular
Dudas	Pain	Neuro	VA CT	MSICU	Regional	Peds I	Peds II	ART CT	OB	CVICU	Vascular	ENT	ART CT
Fatora	Neuro	Regional	RT Peds	Peds II	Pain	ART CT	Vascular	CVICU	ART CT	OB	ENT	ART CT	MSICU
Garg	VA CT	Pain	Vascular	ART CT	CVICU	OB	MSICU	Regional	ENT	Neuro	ART CT	Peds I	Peds II
Hay	ART CT	CVICU	OB	Regional	VA CT	Vascular	Pain	MSICU	ART CT	ENT	Neuro	Peds I	Peds II
Lazar	ENT	ART CT	CVICU	Vascular	OB	MSICU	Regional	Peds I	Peds II	ART CT	Neuro	VA CT	Pain
Patel	Regional	ENT	Pain	VA CT	Vascular	ART CT	CVICU	OB	MSICU	Peds I	Peds II	Neuro	ART CT
Pugach	ART CT	MSICU	ENT	Neuro	Pain	OB	VA CT	Regional	Vascular	ART CT	Peds I	Peds II	CVICU
Shah	MSICU	Vascular	ART CT	RT Peds	Peds II	Pain	OB	ENT	Neuro	ART CT	CVICU	Regional	VA CT
Sumner	RT Peds	Peds II	OB	Vascular	MSICU	VA CT	ENT	ART CT	CVICU	Neuro	ART CT	Pain	Regional
Young	CVICU	RT Peds	Peds II	Gen Main	ENT	Regional	ART CT	Neuro	ART CT	MSICU	Pain	Vascular	OB

CA3	7/1 - 7/28	7/29 - 8/25	8/26 - 9/22	9/23 - 10/20	10/21 - 11/17	11/18 - 12/15	12/16 - 1/12	1/13 - 2/09	2/10 - 3/08	3/09 - 4/5	4/6 - 5/3	5/4 - 5/31	6/1 - 6/30
Antonovich	Regional	Peds	Preop	Pain	ART Pain	RT Amb	Flex	Adv Surg	OB	TTP	NORA	Pain	MSICU
Draper	TTP	ART Pain	OB	Peds	Flex	CT/echo	Preop	MSICU	NORA	ART CT	Regional	Adv Surg	RT Amb
Gama	Pain	Regional	CT/echo	ART Pain	Research	MSICU	TTP	Pain	Preop	Adv Surg	OB	Flex	Peds
Gerughty	Adv Surg	Flex	ART CT	MSICU	CT/echo	Regional	RT Amb	TTP	ART Pain	Preop	Peds	OB	NORA
Green	OB	Adv Surg	TTP	Regional	Preop	NORA	CT/echo	Peds	Flex	Adv ART	MSICU	ART Pain	RT Amb
Gukasov	NORA	CT/echo	Peds	TTP	MSICU	Neuro	OB	Regional	RT Amb	Flex	ART Pain	Preop	Adv Surg
Hynes	ART Pain	MSICU	RT Amb	Adv Surg	OB	Preop	NORA	Flex	Peds	CT/echo	TTP	Regional	Research
Jeanes	TTP	ART Pain	Regional	OB	Research	ART CT	Peds	MSICU	Preop	RT Amb	Peds CT	Flex	CT/echo
Kelly	Peds	Adv ART	ART Pain	CT/echo	Adv Surg	TTP	OB	RT Amb	Regional	MSICU	Flex	NORA	Preop
King	CT/echo	Preop	MSICU	Flex	Adv ART	Adv Surg	ART Pain	OB	TTP	Peds	Regional	RT Amb	ART CT
Mims	Flex	MSICU	Regional	OB	ART CT	Pain	Peds	Preop	Neuro	Adv Surg	RT Amb	CT/echo	TTP
Phillips	MSICU	TTP	Adv Surg	RT Amb	Regional	OB	ART CT	Research	CT/echo	ART Pain	Preop	Peds	Flex
Sealy	RT Amb	OB	Flex	Research	Peds	Preop	Adv Surg	ART Pain	MSICU	Regional	CT/echo	TTP	NORA
Wharton	Preop	RT Amb	ART Pain	Flex	TTP	Peds	MSICU	CT/echo	Pain	OB	Adv Surg	Peds CT	Regional
Wolla	ART CT	TTP	NORA	Preop	RT Amb	Flex	Regional	Neuro	Adv Surg	CT/echo	MSICU	ART Pain	OB

Intern Lecture Series

Our Intern Lecture Series is organized by Dr. Chris Heine. 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.

Chapter	Title	Date	Time/Location	Faculty
	ICU Overview	7/11/19	3:30pm in SEI 314	Bell, David Dolan
41 (N)	Pain	7/24/19	3:30pm in SEI 314	Hillegas
19 (N)	Renal Failure	8/8/19	3:30pm in SEI 314	Sabbagh
8 (S) & 16 (N)	Dysrhythmias	8/22/19	3:30pm in ART 3037	McKinnon
5(S) & 13(N) and 6(S) & 15(N)	Ischemic and Valvular Heart Disease	9/5/19	3:30pm in ART 3037	Guldan
22 (S) & 9 (N)	Preserving Renal Function	9/19/19	3:30pm in SEI 314	Abro
12 (S)	Peripheral Vascular Disease	10/3/19	3:30pm in SEI 314	Heine
18 (N)	Acute Oliguria & Renal Failure	10/17/19	3:30pm in SEI 314	Sabbagh
	Ventilator Management	10/31/19	3:30pm in SEI 314	Heine
13 (S) & 8 (N)	Management of CVA	11/14/19	3:30pm in SEI 314	Wester
23 (N)	Spinal Cord Protection	12/5/19	3:30pm in SEI 314	Redding
17 & 18 (S) & 25 (N)	GI Morbidity (liver, pancreas)	12/12/19	3:30pm in SEI 314	Stoll
33 (N)	Anesthesia for GI Surgery	1/9/20	3:30pm in SEI 314	Bridges
23 (S) & 40 (N) (Endocrin e portion)	Endocrinology	1/23/20	3:30pm in SEI 314	Tobin
27 (N)	Bleeding and Transfusion	2/6/20	3:30pm in SEI 314	Roberts
21 (S) & 40 (N) (Electrolyt e portion)	Fluids, Electrolytes, Acid/Base	2/20/20	3:30pm in SEI 314	McMurray
30 (S)	Anesthesia for Peds	3/5/20	3:30pm in SEI 314	Sabbagh
24 (S)	Hematologic Disorders	3/19/20	3:30pm in SEI 314	Finley
31 (S) & 29 30 (N)	OB	4/2/20	3:30pm in SEI 314	Hebbar
29 (S)	Psych and Substance Abuse	4/16/20	3:30pm in SEI 314	Heine
26 (S)	Infectious Diseases	4/30/20	3:30pm in ART 3037	Rieke
2 - 3 (S) & 10 (N)	Pulmonary Disease	5/14/20	3:30pm in SEI 314	Heine



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.

Date	Topic	Time	Location	Length	Participants	Facilitator	Chapter Titles	Pre-course Material
3-Jun	EPIC Anesthesia Provider Training	8:00-12pm	Harborview 4th Floor Room 403	4hrs	all	Kayla James/Lisa Alcorn		MyQuest Modules
	TB fit testing and PPE fitting	1:00-2:00 pm	SEI 314	1 hr	all	Chloe Backman		
	Anesthesia Compliance Training	2:00-3:00pm	SEI 314	1hr	all	Patty Windham		
4-Jun	Review of Resident Handbook and Expectations	12:00-1:00pm	SEI 314	1hr	all	Guldan, George Chiefs		Resident Handbook
	Pyxis	1:00-2:00pm	4th floor Main OR (by men's locker)	.5hr	Grp A (1-1:30)/ Grp B (1:30-2)	Terry Ruz		
	Machine Checkout, Monitors, Belmont, and Level 1	2:00-3:00pm	SEI 314	1hr	all	Katie Smith		BOA Ch 15
5-Jun	Induction Lecture	8:00-9:30am	SEI 314	1.5hrs	all	McSwain		BOA Ch 5/9
	Induction Simulation	9:30am-4:00pm	SIM Cntr	2hrs	Grp 1 (9:30-11:30), Grp 2 (12-2), Grp 3 (2-4)	McSwain		
6-Jun	Maintenance Lecture	8:00-8:45am	SEI 314	1.5hrs	all	Tabin		BOA Ch 8
	Maintenance Simulation	9:00am-12:45pm	SIM Cntr	1.5hrs	Grp 1 (9:00-10:15), Grp 2 (10:15-11:30), Grp 3 (11:30-12:45)	Tabin		
7-Jun	Moderate Sedation	8:00am- 12:00pm	SIM Cntr	5hrs	Group 1	Tabin		Moodle modules
8-Jun								
9-Jun								
10-Jun	Emergence Lecture	8:00-9:30am	SEI 314	1.5hrs	all	McSwain		BOA Ch 10/12
	Emergence Simulation	9:30am-12:30pm	SIM Cntr	1hr	9:30-10:30), Grp 2 (10:30-11:30), Grp 3 (11:30-	McSwain		
11-Jun	BOA Chapter 25 Lecture	2:00-3:30pm	SEI 314	1.5hrs	all	Heine	Cardiac Disease	BOA Ch 25
12-Jun	BOA Chapter 10/17 Lecture	2:00-3:30pm	CSB 429	1.5hrs	all	Epperson	Local Anesth/Neuraxial Anesthesia	BOA Ch 10/17
13-Jun	Moderate Sedation	8:00am-5:00pm	SIM Cntr	5hrs	Group 2 (8-12), Group 3 (12:30-4:30)	Tabin		Moodle modules
14-Jun	Ultrasound Simulation	8:00am-2:30pm	SEI 314	3hrs	Grp A (8-11)/ Grp B (11:30-2:30)	Bolin		
15-Jun								
16-Jun								
17-Jun	Basic Airway Mgmt	8:00am-4:00pm	SIM Cntr	4hrs	Grp B(8-12)/ Grp A(12-4)	Schaefer		BOA Ch 16
18-Jun	BOA Chapter 29 Lecture	2:00-3:30pm	SEI 314	1.5hrs	all	Stoll	Endocrine and Nutritional Disease	BOA Ch 29
19-Jun	BOA Chapter 39/40 Lecture	2:00-3:30pm	SEI 314	1.5hrs	all	George	PACU and Acute Post-op Pain	BOA Ch 39/40 and Appendix 3
20-Jun	BOA Chapter 30 Lecture	2:00-3:30pm	SEI 314	1.5hrs	all	Whiteley	CNS Disease	BOA Ch 30
21-Jun	BOA Chapter 13/14 Lecture	2:00-3:30pm	SEI 314	1.5hrs	all	Brown	Pre-op Eval & Choice of Anesthetic	BOA Ch 13/14 and Appendix 1
22-Jun								
23-Jun								
24-Jun	BOA Chapter 27 Lecture	2:00-3:00pm	SEI 314	1.5hrs	all	Clark	Chronic Pulm Disease	BOA Ch 27
	SCIP guidelines/Risk Indices	3:00-4:00pm	SEI 314	1.5hrs	all	Clark		
25-Jun	BOA Chapter 23/24 Lecture	2:00-3:30pm	SEI 314	1.5hrs	all	Guldan	Fluid Mgmt and Transfusion	BOA Ch 23/24
26-Jun	BOA Chapter 5/6 Lecture	2:00-3:30pm	SEI 314	1.5 hrs	all	Heine	Cardiopulm Phys & Autonomics	BOA Ch 5/6
27-Jun	Pharmacy Issues/Acudose	1:00-2:00pm	SEI 314	1hr	all	L. McLeroy/E. Thomas		
	BOA Chapter 19/20 Lecture	2:00-3:30pm	SEI 314 then Main OR	1.5hrs	all	Clark	Positioning, Monitors, FOB setup	BOA Ch 19/20 and Appendix 2
28-Jun	BOA Chapter 21/22 Lecture	3:00-4:00pm	ART Auditorium	1hr	all	Rieke	Acid-Base and Hemostasis	BOA Ch 21/22
	Wearing Masks Lecture	4:00pm - 5pm			all and family invited	Guldan		

CA-1 Lecture Series

Based on Morgan & Mikhail's Clinical Anesthesiology, 5e			
Topic	Chapters	Faculty	Location
I. THE BASICS: PERIOPERATIVE CARE, AIRWAY, ANESTHETIC EQUIPMENT & MONITORS			
NO LECTURE - Holiday		xx	
Perioperative Emergencies and ACLS	55	Rieke	CSB 429
Patient Preop and Handoff PBL		Clark	CSB 429
Airway Management	56	Hassid	CSB 429
Post Anesthesia Care	19	Roberts	CSB 429
Anesthesia Machine and Technology	4	R. Harvey	CSB 429
II. CLINICAL PHARMACOLOGY			
Fluid Management & Transfusion	51	Vizzini	CSB 429
Inhalation Anesthetics	8	R. Smith	CSB 429
Nonvolatile Anesthetic Agents	10	R. Wilson	CSB 429
Local Anesthetics; Adjuncts to Anesthesia	16,17	Hebbar	CSB 429
Neuromuscular Blocking Agents	11	Matos	CSB 429
Anticholinergic Drugs; Cholinesterase Inhibitors	12,13	Sirianni	CSB 429
Peripheral Nerve Blocks; Anesthesia for Orthopedic Surgery	46, 38	Bolin	CSB 429
Spinal, Epidural, & Caudal Blocks	45	Gunselman	CSB 429
IV. PHYSIOLOGY, PATHOPHYSIOLOGY, & ANESTHETIC MANAGEMENT			
Respiratory Physiology: The Effects of Anesthesia	23	Britell	CSB 429
ASA Conference - NO LECTURE THIS WEEK!			
Anesthesia for Patients with Respiratory Disease	24	Eastman	CSB 429
Cardiovascular Physiology & Anesthesia	20	Mester	CSB 429
Adrenergic Agonists & Antagonists; Hypotensive Agents	14,15	Condrey	CSB 429
Anesthesia for Patients with Cardio Disease	21	Heinke	CSB 429
Happy Thanksgiving - NO LECTURE THIS WEEK!			
Hepatic Physiology; Anesthesia for Patients w/ Liver Disease	32,33	Hebbar	CSB 429
Acid-Base Balance; Renal Physiology & Anesthesia	50, 29	Field	CSB 429
Anesthesia for the Trauma Patient	39	Ellis	CSB 429
Happy Holidays - NO LECTURE THESE TWO WEEKS!			
Anes for Pts Endocrine Dz; Anes for Pts w/ Neuromusc Dz	34, 35	S. Whitener	CSB 429
Anesthesia for Patients with Kidney disease	30	Bridges	CSB 429
Maternal and Fetal Physiology; Obstetric Anesthesia	40,41	Marotta	CSB 429
Anesthetic Complications	54	Romeo	CSB 429
Geriatric Anesthesia	43	Brown	CSB 429
c			
In-Training Exam (FEB 2020) - NO LECTURE THESE WEEKS!			
VI. SPECIALTY ANESTHESIA			
Anesthesia for Neurosurgery	27	Whiteley	CSB 429
Anesthesia for Cardiovascular Surgery	42	G. Whitener	ART 3037
Obstetric Anesthesia PBL	41	Tobin	CSB 429
Pediatric Anesthesia PBL	22	Redding	CSB 429
Special Problems or Issues in Anesthesiology PBL	58	Moore	CSB 429
VII. Independent Study Preparation for ABA Basic Exam (APR-JUN)			
Basic Statistics for the Boards		Wolf	CSB 429
ABA Basic Examination - JUNE 2020			

CA-2/3 Lecture Series

Most CA-2/3 lectures will take place on Harbor, MUSC’s online learning platform. However, some do take place in person. (Please note, below example not full rotation calendar).

"CHRONIC PAIN"		
No Lecture		NA
Sympathetic Nerve Blocks (Ch.26)		Harbor
Visiting Professor Lecture - All Residents: Principles of Chronic Pain Management	3:30 PM	CSB 429
Opioids (Barash Ch.19)		Harbor
Chronic Pain Management (Ch.58)		Harbor
"PHYSIOLOGY/PHARMACOLOGY"		
Abnormalities of Cardiac Conduction and Cardiac Rhythm PBLD (Stoelting Ch.4)	3:30 PM	CSB 429
Visiting Professor Lecture - All Residents	3:30 PM	CSB 429
Respiratory Function in Anesthesia PBL (Barash Ch.28)		Harbor
Adrenal Dysfunction PBLD (Stoelting Ch.16)		Harbor
"OB ANESTHESIA"		
LABOR DAY - NO LECTURE		NA
Visiting Professor Lecture - All Residents	3:30 PM	CSB 429
What's New in OB Anesthesia		Harbor
Management of High Risk Parturients & Anesthetic Implications (Barash Ch.42)		Harbor
"REGIONAL ANESTHESIA"		
Career Planning - All Residents	3:30 PM	CSB 429
Advanced Regional Anesthesia Techniques		Harbor
Update on Lower Extremity Blocks (Ch.35)		Harbor
Acute Pain Management in the Opioid Dependent Patient (Barash Ch.56)		Harbor
"EVIDENCE-BASED MEDICINE/RESEARCH"		
Pregnancy-Associated Diseases (Stoelting Ch.23)		Harbor
Abnormalities of Cardiac Conduction and Cardiac Rhythm PBLD (Stoelting Ch.4)		Harbor
Cardiopulmonary Resuscitation in the Perioperative Period (Barash Ch.58)		Harbor
Intravenous Anesthetics (Barash Ch.18)		Harbor
"SAFETY/PROFESSIONALISM"		
Post Anesthesia Recovery (Barash Ch.55)		Harbor



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 Hebbbar 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. Fred Guidry, Dr. James Abernathy and Dr. John Waller. 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.

“MUSC provides sound educational preparation and diverse clinical training for any career path in anesthesiology, be it fellowship training, private practice or academic medicine.

Residents are given stepwise increases in autonomy ensuring they are well rounded and competent practitioners upon graduation.

The clinical case load is diverse and appropriately challenging. The phenomenal teaching faculty and clinical exposure gave me no doubt this was where I would continue my education during fellowship.”



Clay Foret, M.D.
Residency Program Graduate,
Current CT Anesthesiology 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 2019 to June 2020)

PGY-1 | \$52,778.00 PGY-2 | \$54,463.00 PGY-3 | \$56,164.00 PGY-4 | \$58,708.00

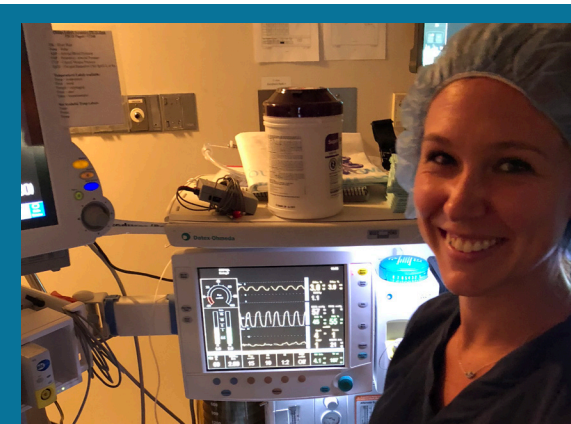
Benefits (Overview)

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. CA-3 additional stipend for transition expenses (\$3,200)
- 15. Truelearn Anesthesia QBank annual membership (\$299)

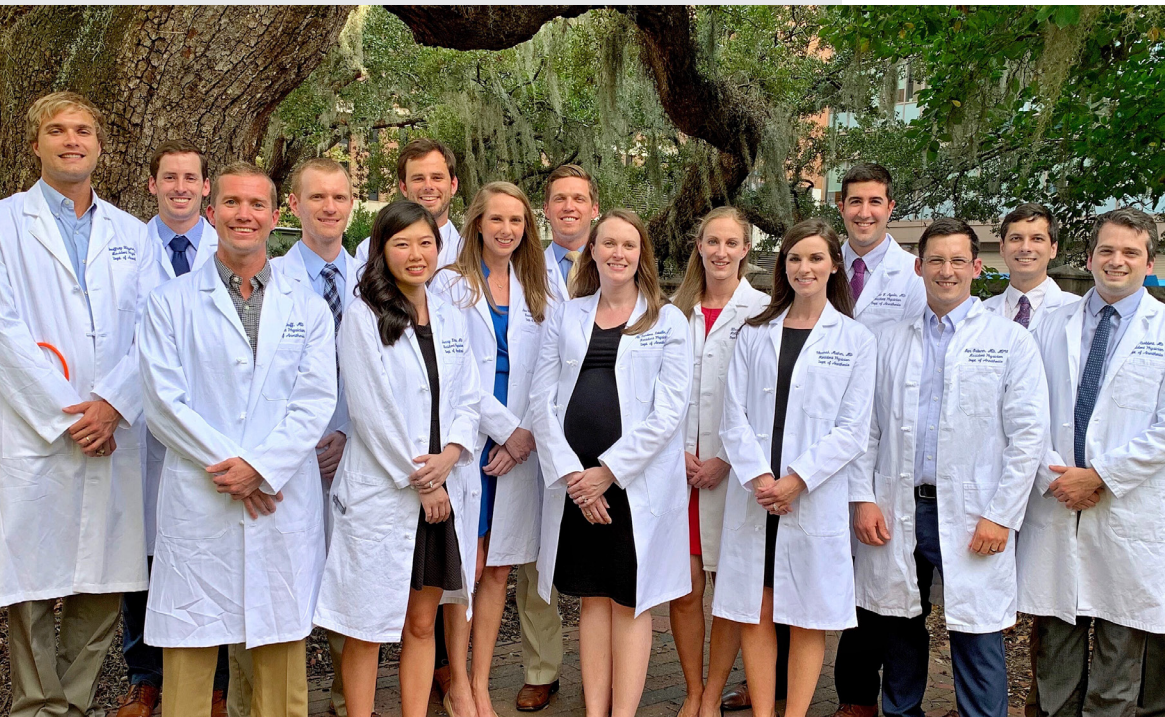
Moonlighting Policy

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 2019

Where are they now?



BACK ROW FROM LEFT TO RIGHT

Geoffrey Kilgore, MD - Anesthesiologist at Spartanburg Regional Hospital in Spartanburg, SC
Lee Cumbee, MD - Anesthesiologist at East Cooper Medical Center in Mt. Pleasant, SC
Greg Foster, MD - Anesthesiologist at Northside Anesthesiology Consultants in Atlanta, GA
Clay Foret, MD- Anesthesiologist at Palmetto Health Richland in Columbia, SC
Anthony Lehn, MD - Pediatric Anesthesiology Fellow at Emory in Atlanta, GA
Kirsten Dahl, MD - Regional Anesthesiology Fellow at MUSC in Charleston, SC
Cip Ayala, MD - Anesthesiologist at Prisma Health Baptist in Columbia, SC
Alex Golovlev, MD - Staff Anesthesiologist at American Anesthesia in Savannah, GA

FRONT ROW FROM LEFT TO RIGHT

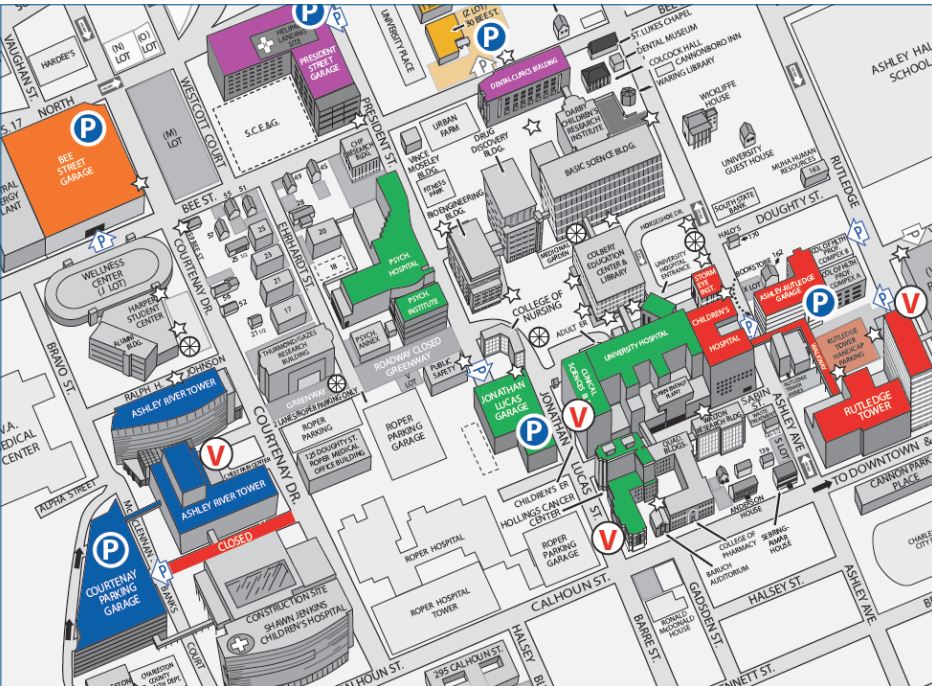
Brooks Duff, MD - Anesthesiologist at Palmetto Anesthesia Associates in Greenville, SC
Sherry Zhou, MD - Anesthesiologist at Anesthesia Specialists in Bethlehem, PA
Anne Wanaselja, MD - Anesthesiologist at MUSC in Charleston, SC
Ali Lataille, MD- Anesthesiologist at Self Regional Hospital in Greenwood, SC
Hannah Mather, MD - Anesthesiologist at Prisma Health Richland in Columbia, SC
Ian Osburn, MD, MPH - Chronic Pain Fellow at Yale University in New Haven, CT
Sam Luebbert, MD - Pain Management Fellow at Virginia Commonwealth University in Richmond, VA

Resident Contacts

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MUSC's Campus Map & Program Coordinator Contacts



Here in the Department of Anesthesia and Perioperative Medicine, we are fortunate to have two wonderful Residency Program Coordinators, Susan Watson and Laura Matthews, and Sadira Abu-Arja, our amazing Program Assistant.

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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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