



Changing what's possible

# Department of Medicine 2019 Annual Report

**Acknowledgments:**

The Department of Medicine would like to thank the many individuals, especially our leadership, including our Division Directors and Division Administrators, for their collective efforts in helping to complete this year's annual progress report. Additionally, we would like to thank those who are featured within these pages for their continued service to MUSC and contributions to this publication.

**Editor, Creative and Production Manager:** Natalie Wilson  
**Photographer:** Elizabeth Anne Thompson

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## COVER:

**Top Image:** Image depicts immunofluorescence labeling of liver, identifying cells in the portal vein, hepatic sinusoids, and the nuclei of various cell types.

**Middle Image:** Melissa Cunningham, M.D., Ph.D., and Jena Wirth, MS, in the Division of Rheumatology prepare for ovary removal in mice as part of a project to better understand the role of estrogen in lupus.

**Bottom Image:** DNA

# MESSAGE FROM THE CHAIR

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The past academic year was one of extraordinary growth and progress across the Department of Medicine's tripartite mission of patient care, education and research. In fact, by virtually every metric, this last year was one of the most successful in the Department's history - thanks to the commitment of our dedicated faculty, staff, and leadership. With nearly 300 faculty members, the Department of Medicine provides essential leadership to numerous programs across the MUSC campus and South Carolina. As the largest and one of the most active Departments in the MUSC College of Medicine, we are extremely proud of our outstanding physicians, researchers, and staff.

In the pages that follow, I invite you to learn more about the exciting programs, research initiatives, and treatment advances taking place within the Department. Some particularly noteworthy Departmental highlights from this past year include the following:

- Our peers and our patients continue to rank Department of Medicine programs among the best in the nation. In 2019, MUSC Health's Rheumatology program was ranked 13th best in the country by U.S. News & World Report. In addition, our Hematology & Oncology program was highly ranked again this year, coming in at No. 32 and our Nephrology program was recognized as high-performing.
- In research, we had our most impressive year ever in FY19, with the development of multiple new programs, including a number of new K awardees. For the entire Department, we were awarded grants totaling over \$48 million.
- The Department's clinical programs have continued to grow in both volume and quality over the past year. Compared to FY18, the Department's work product (wRVU's) grew by 11% and our new patient visits increased by an extraordinary 19%.
- The Department of Medicine created a Wellness and Burnout Task Force charged with instituting new initiatives and solutions to address wellness and burnout in 2019. As part of this initiative and the Department's commitment to recognizing our faculty and employees for their outstanding work, we expanded recognition opportunities for clinical educator awards and we instituted several new research-oriented awards.
- The Department's core internal medicine residency and subspecialty fellowship programs are among the nation's best, and we remain exceptionally proud of our outstanding trainees - many of whom become leaders at MUSC and around the world. Each year, applications to our training programs exceed the previous year, and the quality of the applicants has continued to rise along a similar trajectory.

Our Department—made up of nine divisions engaged in care at two hospital systems and multiple ambulatory practices—is guided by our vision to provide world-class patient care, to educate the next generation of physicians, and to generate groundbreaking scientific discoveries to improve human health.

I extend my sincere appreciation to the dedicated faculty, fellows, residents, and staff who have contributed to our success so far, and I look forward to celebrating our future accomplishments and new initiatives in the year ahead.



A handwritten signature in black ink that reads "Don C. Rockey". The signature is fluid and cursive, with the first letters of each name being capitalized and prominent.

**Don C. Rockey, M.D.**  
Professor and Chair  
Department of Medicine  
Medical University of South Carolina

# BY THE NUMBERS

Our achievements in education, research, and clinical care are far-reaching as we deliver the University's mission: changing what's possible.



FY19 Research Activity



**87**  
NEW  
AWARDS



OVER  
**\$48**  
MILLION  
in Research Awards

**62**

PI's with Active Corporate  
Clinical Research

**55**

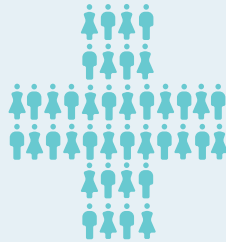
PI's with Active Federal Awards

**30**

PI's with Active Federal  
Clinical Research



Faculty, Staff, and Trainees



**259**  
Faculty



**202**  
Trainees  
99 Residents  
88 Fellows  
15 Post Docs & Trainees



**110** Research Staff



**99** Management &  
Support Staff



**59** APPs



FY19 Clinical Activity



**30,579**  
NEW  
PATIENTS



**852,287**  
wRVU  
GENERATION



**282,923**  
OUTPATIENT  
ENCOUNTERS



## CLINICAL HIGHLIGHTS

### Telemedicine: Bringing health care closer to home

Providing clinical excellence also involves implementing innovative models of care that offer patients the right care in the right place at the right time. An important way through which MUSC is working to meet its service expansion goals is the use of telehealth services.

Growing from 12 telehealth programs to more than 70, the MUSC Health Center for Telehealth is widely regarded as an industry leader in telemedicine and is one of only two National Telehealth Centers of Excellence designated by the Health Resources and Services Administration (HRSA).

Working with the Center for Telehealth, the Department of Medicine has made a specific commitment to lead new, innovative telehealth initiatives, all aimed to improve the access, quality, and affordability of health care for South Carolinians.

Harsha Karanchi, M.D.

#### Diabetes: empowering patients to be involved in their own care

A new diabetes telehealth program offered through the MUSC Center for Health Disparities Research enables patients to monitor diabetes and blood pressure from their homes, with direct transmission of real-time data for viewing by their primary care doctors. This technology provides doctors and nurses with the information they need to make treatment recommendations over the phone between office visits.

“Our goal is to improve diabetic control for low income, rural adults in SC with type II diabetes who otherwise have difficulty accessing primary care,” says **Elizabeth Kirkland, M.D., MSCR**, assistant professor and co-medical director of Technology Assisted Case Management for Low Income Adults with Type II Diabetes (TACM2).

Since inception, over 1,000 patients have been enrolled in the year-long program, and approximately 700 participants are still actively being monitored across the state of South Carolina. “What we found is that there are dramatic improvements in A1C levels in the first six months,” says Dr. Kirkland.

Kirkland attributes this success to patients being able to manage their own disease. Remote monitoring also reduces the barrier of having to continually go to the doctor’s office, saving patients time and money.

## Endocrinology Telemedicine Clinic

Beginning in July 2019, the Division of Endocrinology began offering endocrinology services via telemedicine at MUSC's specialty outpatient clinic in Murrells Inlet, SC. During these visits, patients consult with board-certified endocrinologist **Harsha Karanchi, M.D.**, face-to-face via secure video conferencing. A certified medical assistant takes the patient's vital signs in person and the results are instantly provided to Dr. Karanchi, allowing him to provide the same level of care using telemedicine technology as he would during an in-person visit. Patients with diseases ranging from Addison's disease to diabetes to hypothyroidism will greatly benefit from this new service.

## Infectious Diseases Telehealth

In June 2019, the Division of Infectious Diseases launched a new Telehealth Infectious Diseases program led by **Amanda Parks, M.D.**, assistant professor of medicine. To date, the team has conducted over 100 inpatient consults. The program is tailored to the needs of each health system and patient, depending on size, resources and services offered, and includes comprehensive Infectious Diseases (ID) services. "Our primary service is providing expert inpatient consultation for ID cases," says Dr. Parks. "We also offer oversight, management, implementation and training for Infection Control and Antimicrobial Stewardship Programs." In the future, the Division plans to expand its tele-ID services to outpatient clinics as well.

## Palliative Care Telehealth

Palliative care focuses on relieving symptoms and stress in patients with serious illnesses to improve the quality of life for both the patient and their family. MUSC has a robust palliative care team that is pioneering a new project with the Center for Telehealth.

In July 2018, the MUSC palliative care team received a 3-year, \$1.26M grant from the Duke Endowment to create a statewide, palliative care telehealth program. This grant provides money to train and educate partner providers, as well as social workers and chaplains, to deliver true interdisciplinary palliative care, rather than strictly medical care.

"It's a big deal for South Carolina because there is a national shortage of palliative care physicians," says **Patrick J. Coyne, MSN, ACHPN, ACNS-BC, FAAN,**

**FPCN**, program director of the Palliative Care Program at MUSC. "It's a new, exciting program. It will be one of the pioneers in the country."

## Tele-ICU

MUSC Health offers 24/7 continuous patient monitoring for those in intensive care at partner hospitals. Tele-ICU is a transformational program that uses proactive technology and two-way audiovisual communication to enable MUSC Health's critical care team to provide remote ICU care. Some hospitals use tele-ICU to gain access to intensivists while others use the service for an additional layer of critical care support. System alerts produced by sophisticated algorithm software alert the MUSC critical care team of important trends in a patient's condition, enabling proactive clinical decision-making and early identification of potential problems. The Division of Pulmonary, Critical Care, Allergy & Sleep Medicine provides key leadership for the Tele-ICU program where **Dee Ford, M.D.**, professor, is medical director and **Nandita Nadig, M.D.**, assistant professor, is associate medical director. Currently, there are six South Carolina hospitals enrolled in the Tele-ICU program with plans to expand to 11 this fiscal year.

## Cardiac Telehealth

In May 2019, MUSC launched a new partnership alliance with Hampton Regional Medical Center in Varnville, SC to bring specialty care services to the 32-bed rural hospital via MUSC's telehealth network. As part of this partnership, the Division of Cardiology now offers cardiac telehealth services at Hampton Regional. Cardiologists, **Michael Craig, M.D.**, assistant professor and director of cardiac telehealth, and **William Edwards, M.D.**, telecommunicate with an advanced practice provider at Hampton Regional to manage and provide care for a wide variety of cardiac disorders to both inpatients and outpatients with heart disease.

## Hospitalist Telehealth

In 2019, the Division of General Internal Medicine launched a new Hospitalist Telehealth program at Hampton Regional Medical Center (HRMC). Through this program, MUSC's hospitalists round via telehealth daily with on-site advanced practice providers (APPs) and are on-call as needed for teleconsultation coordinated by the on-site APPs. This service should substantially reduce costs and improve outcomes for HRMC.



## RESEARCH HIGHLIGHTS

### Fostering Innovation

The Department of Medicine has a long tradition of conducting original and outstanding biomedical and clinical research, working to shape the future of medicine by forging new partnerships, developing scientific talent and supporting a culture of curiosity and collaboration.

Bushra Rahman and Deepak Nihalani, Ph.D.

### RESEARCH FUNDING

FY19 was an outstanding year due to the success of the faculty who competed for a record high of \$48M in external research funding and published over 388 articles to further advance that goal.

During the past academic year, the Department of Medicine's research portfolio totaled nearly \$25.4 million in federal awards, \$61.8 million in industry funded grants/clinical trial earnings and over \$9.2 million in non-federal awards. In FY19, Medicine faculty acquired 18 new or competitively renewed federal awards resulting in a 21% increase in total federal grant funding as compared to the previous year. In demonstration of our commitment to advancing the careers of the next generation of researchers, four junior faculty members received a K or career development award.



## DOM RESEARCH SYMPOSIUM

The 13th Annual Department of Medicine Research Symposium was held on April 26, 2019, with an outstanding presentation by Andrew Gewirtz, Ph.D., professor, Institute for Biomedical Sciences, Georgia State University. A total of 65 abstracts were presented at this year's program by junior faculty, postdoctoral fellows, fellows, residents, graduate students, and medical students. Of those abstracts, five were selected for oral presentation awards. In addition, we instituted several new research-oriented awards which were presented at this year's symposium.

## POSTER AWARDS

### Oral Abstract Presenters:

Scott Curry, M.D.

Roula Sasso, M.D.

Ashish Solanki, Ph.D.

Nina Thomas, M.D.

Jiaqian Xu

### Junior Faculty:

Harsha Karanchi, M.D., *1st Place Winner*

Melissa Cunningham, M.D., *2nd Place Winner*

### Postdoctoral Category:

Ahmed Khalifa, M.D., *1st Place Winner*

Kamala Sundararaj, Ph.D., *2nd Place Winner*

### Resident/Fellow Category:

Ahmadreza Karimianpour, D.O., *1st Place Winner*

Devin Blankinship, M.D., *2nd Place Winner*

Ben Long, M.D., *3rd Place Winner*

### Graduate Student Category:

Myroslawa Happe, *1st Place Winner*

### Medical Student Category:

Nathan Sairam, *1st Place Winner*

Mark Cromer, *2nd Place Winner*

Patricia Jokl, *3rd Place Winner*

## RESEARCH & SCHOLARSHIP AWARDS

### Research Faculty Mentoring Award:

Dee Ford, M.D., MSCR

### Resident Research Award:

Devin Blankinship, M.D.

### Outstanding Scientific Publication Award:

Louis Luttrell, M.D., Ph.D.

John Wrangle, M.D., MPH



Andrew Schreiner, M.D., Dayvia Russell, and Thomas Di Salvo, M.D.

### Millipub Club Awards:

*Recognizes current faculty who have published one or more individual papers throughout their careers that have each garnered more than 1,000 citations. (Listed alphabetically)*

Neal Axon, M.D.#

Peter Cotton, M.D.\*

Thomas Di Salvo, M.D., MBA, MPH

Daniel Judge, M.D. (two papers)

Robert Leman, M.D.

Maria Lopes-Virella, M.D., Ph.D.\*

Louis Luttrell, M.D., Ph.D.\*

Michael Zile, M.D. (two papers)

\*First Author #Last Author

### Top Ten Publishers Club Awards:

*Recognizes the top 10 faculty members in the Department with the most Original Science Publications in CY18. (Listed alphabetically)*

Gregory Cote, M.D.

Joseph Elmunzer, M.D.

Carol Feghali-Bostwick, Ph.D.

Maria Lopes-Virella, M.D., Ph.D.

Patrick Mauldin, Ph.D.

Don Rockey, M.D.

Lynn Schnapp, M.D.

Gerard Silvestri, M.D.

Ryan Tedford, M.D.

Michael Zile, M.D.

To view the 2019 Research Symposium Award Winners, visit: [muscul.edu/researchsymposiumawards](https://muscul.edu/researchsymposiumawards)

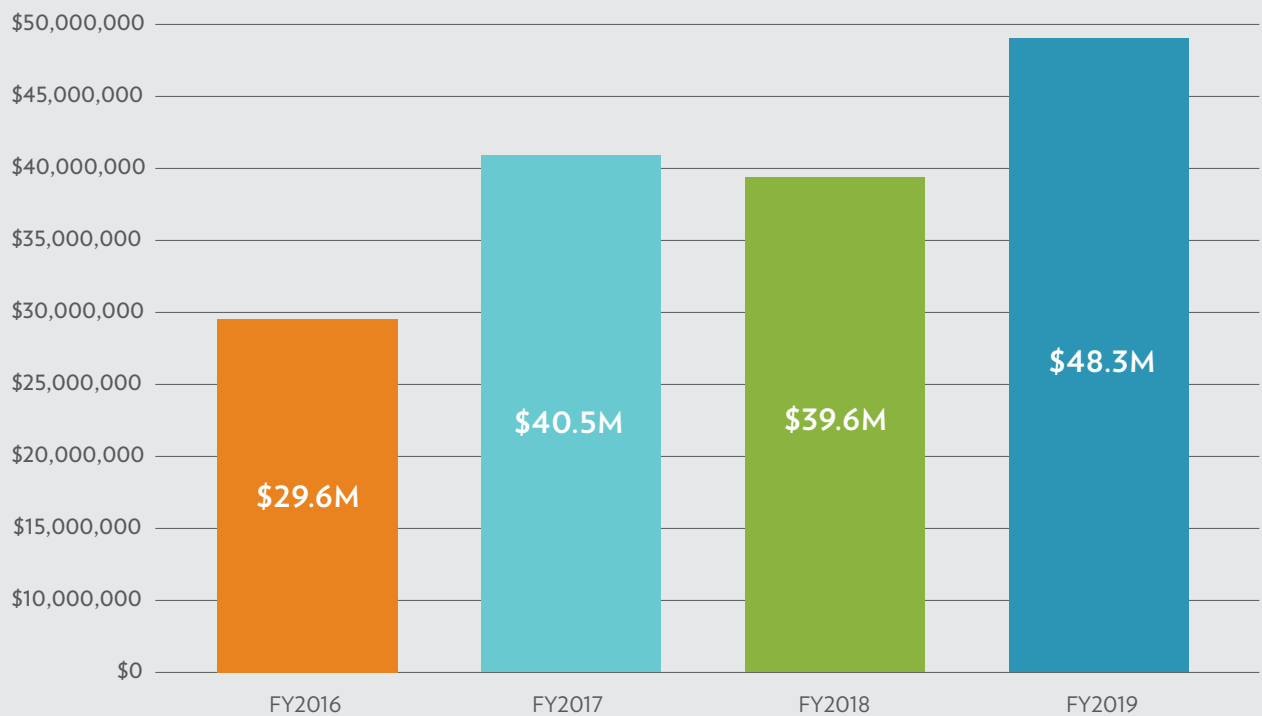
# FY19 EXTRAMURAL RESEARCH FUNDING HIGHLIGHTS

RESEARCH GRANT TITLE	PRINCIPAL INVESTIGATORS	EXTRAMURAL SPONSORS	AWARD DATE
<b>Endocrinology</b>			
Translational Research in Pediatric and Obstetric Pharmacology and Therapeutics (R01)	Dr. Jeremy Yu	NIH/NICHD	August 22, 2018
<b>General Internal Medicine</b>			
PCTE: Training Community Transformation Champions (HRSA)	Dr. William Moran	HRSA	September 10, 2018
Improving the Diagnosis of Liver Disease in Primary Care Patients with Abnormal Liver Function (K23)	Dr. Andrew Schreiner	NIH/NIDDK	July 19, 2018
Patient factors associated with sustained clinical benefit in remote monitoring (Internal K12)	Dr. Elizabeth Kirkland	COM K12 Clinician Scientist Award	May 1, 2019
<b>Hematology &amp; Oncology</b>			
Efficacy of Bendamustine-Obinutuzumab-Venetoclax Induction in Untreated Mantle Cell Lymphoma (Foundation)	Dr. Irl Greenwell	Lymphoma Research Foundation	July 23, 2018
<b>Infectious Diseases</b>			
Pathways to Cardiovascular Disease Prevention and Impact of Specialty Referral in Under-Represented Racial/Ethnic Minorities with HIV (R01 Subaward)	Dr. Eric Meissner	Duke University	March 21, 2019
<b>Nephrology</b>			
Effects of Dietary Salt Restriction on Cystogenesis in ARPKD (Foundation)	Dr. Daria Ilatovskaya	Polycystic Kidney Disease Foundation	July 1, 2018
Preclinical Therapeutic Validation of a Novel Therapeutic Lead for Treating Glomerular Diseases Such as Focal and Segmental Gomerulosclerosis (R41 Subaward)	Dr. Deepak Nihalani	NIH/NIDDK	September 19, 2018
<b>Pulmonary, Critical Care, Allergy, and Sleep Medicine</b>			
Study to understand disease course inflammation and endotype of South Carolinians with nontuberculous mycobacteria (STUDIES NTM)" from the SCTR Institute (Internal K12)	Dr. Bryan Garcia	COM K12 Clinician Scientist Award	May 1, 2019
Pulmonary Focused Foundations in Innovation and Scholarship (PuFFInS) (T32)	Dr. Lynn Schnapp	NIH/NHLBI	May 28, 2019

# FY19 EXTRAMURAL RESEARCH FUNDING HIGHLIGHTS

RESEARCH GRANT TITLE	PRINCIPAL INVESTIGATORS	EXTRAMURAL SPONSORS	AWARD DATE
<b>Rheumatology and Immunology</b>			
The Role of Estradiol in Systemic Sclerosis (KL2)	Dr. DeAnna Baker-Frost	SCTR KL2 Scholars	July 1, 2018
Identification of Functional Regulatory Marks Involved in Monocyte Dysfunction in Scleroderma (Foundation)	Dr. Paula Ramos	Scleroderma Foundation	April 2, 2019
Predictive Biomarkers for Disease Activity and Organ Damage in Patients with Lupus (R01)	Dr. Betty Tsao	NIH/NIAMS	July 3, 2018
Pathogenic Role of SAT1 Variants in Monogenic Lupus (R21)	Dr. Betty Tsao	NIH/NIAMS	May 1, 2018
The Role of Missense NCF1 Variant p.R90H in Scleroderma Pathogenesis (Foundation)	Dr. Betty Tsao	Scleroderma Foundation	April 2, 2019

## Department of Medicine FYTD Research Awards



# MEDICAL EDUCATION

The Department of Medicine is deeply committed to the education and training of skilled clinicians, researchers, and educators bound to become the health care leaders of tomorrow.



Residency education space ribbon cutting ceremony

Under the leadership of **Benjamin Clyburn, M.D.**, and associate program directors, the Department of Medicine continues to pioneer evidence-based medicine training. With 99 internal medicine resident trainees, and 88 fellows across nine programs, competitive training opportunities span the Department, College of Medicine, and beyond. MUSC's Internal Medicine Residency program prioritizes collaboration, autonomy, and scholarship, and facilitates learning about highly diverse patients and diseases in a number of practice settings.

The Department offers fellowship programs across all nine divisions to provide extraordinary subspecialty training with focus for clinical, clinician-educator, and research careers. The program recruits trainees from the top medical schools and residency programs in the country, and its alumni are among the most distinguished medical professionals in the U.S. and abroad, including many of the current faculty of MUSC.

## HIGHLIGHTS AND ACCOMPLISHMENTS

2018-19 graduates achieved a 100% percent pass rate on the American Board of Internal Medicine (ABIM) Certification Examination.

In March 2019, the Department of Medicine opened its newly renovated internal medicine residency education space. The new space is an open, contemporary, functional work area that is extremely welcoming and efficient. "The core difference is that we now have much

more dedicated space for the full care team — including attending physicians, upper level residents, pharmacists, interns, and medical students — to collaborate and coordinate care, which in turn enhances patient care and outcomes," said Devin Blankinship, M.D., one of the chief residents. The renovation also significantly expands and fully integrates technology usage throughout the teaching and research program. The space accommodates residents across multiple programs and enables the Department to enhance both collaboration and innovation, two of the core values at the Medical University of South Carolina.



Newly renovated residency education space



William Moran, M.D., (middle) accepting Division of the Year award for General Internal Medicine

## RESIDENCY LEADERSHIP

E. Benjamin Clyburn, M.D.  
*Program Director*

Kathryn Anderson, M.D.  
*Associate Clerkship Director*

Kelly Barth, D.O.  
*Medicine/Psychiatry Residency  
Program Director*

Ashley Duckett, M.D.  
*Associate Program Director*

Marc Heincelman, M.D.  
*Clerkship Director*

Brad Keith, M.D.  
*Associate Vice Chair, Graduate  
Medical Education*

Sarah Mennito, M.D., MSCR  
*Medicine/Pediatrics Residency  
Program Director*

Skip Schumann, M.D.  
*Associate Program Director*

William Shelley, M.D.  
*Associate Program Director*

## CLINICAL EDUCATOR AWARDS

The Department of Medicine's inaugural Clinical Educator Awards Ceremony was held on June 5, 2019, as a way to recognize and honor our outstanding residents and faculty for their achievements in the areas of clinical care and teaching. A critical goal of this event was to highlight the extraordinary contributions of our housestaff to the Department, our hospitals, and the patients we serve. A further goal of this event was to recognize faculty members involved in patient care and education who contribute so much to the Department. Thus, we instituted several new excellence in clinical education awards, which were presented at this year's ceremony.

### Fellow of the Year:

Nick Fox, M.D.

### Division of the Year:

General Internal Medicine

## RESIDENT AWARDS

### Intern of the Year:

Hampton Sasser, M.D.

### Resident of the Year:

Richard Lueking, M.D.

### Outpatient Resident of the Year:

Jose Mira, M.D.

### Inpatient Resident of the Year:

Meghan Thomas, M.D.

## FACULTY AWARDS

### Attending of the Year (Dr.

Michael Assey Award):

Andrew Schreiner, M.D., MSCR

### Ambulatory Teacher of the Year

(Outpatient Attending):

Kathryn Anderson, M.D.

### Consult Teacher of the Year:

Ruth Campbell, M.D.

### Excellence in Medical Student Teaching Awards:

*Winners:* Jay Brzezinski, M.D., and  
Andrew Schreiner, M.D.

*1st Runners Up:* Valerian Fernandes,  
M.D., and Morgan Randall, M.D.

*2nd Runners Up:* Michael Tucker,  
M.D., and Benjamin Kalivas, M.D.

### Education Mentoring Award:

Cassandra Salgado M.D., MS

### Junior Faculty Clinician Educator of the Year Award:

Benjamin Kalivas, M.D.

### Mid-Career Clinician Educator of the Year Award:

Marc Heincelman, M.D.

### Established Clinician Educator of the Year Award:

E. Benjamin Clyburn, M.D.

### Excellence in Patient Satisfaction:

Anand Achanti, M.D.

Theodore "Todd" Gourdin, M.D.

Diane Kamen, M.D., MSCR

Gerard Silvestri, M.D., MS

Marion Taylor, M.D.

Michael Ullian, M.D.

### The Doctor's Doctor Award:

Jay Brzezinski, M.D.

### Professionalism Award:

Elisha Brownfield, M.D.

### Hidden Gem Award:

Amanda Overstreet, D.O.

### Lifetime Clinician Educator Achievement Award:

Richard Silver, M.D.

# 2018-2019 INTERNAL MEDICINE HOUSESTAFF



## Internal Medicine Chief Residents (left)

Sarah Compton, M.D.  
Dustin Dalton, M.D. (VA Chief)  
Merle Haulsee, M.D.  
Morgan Randall, M.D.

## PGY-1 Interns

Nnamdi Azih, M.D.  
Keegan Bakos, M.D.  
Emily Bay, M.D. (Med-Psych)  
Robert Borucki, M.D. (Prelim)  
Kent Broussard, M.D.  
Charish Buffa, M.D. (Med-Peds)  
Giordano Cittolin Santos, M.D., Ph.D.  
Bradley Collins, M.D.  
Kelly Engle, M.D.  
Bianca Farley, M.D.  
Erickson Galvan, M.D.  
Mona Haj, M.D.  
Helen (Jensie) Harley, M.D.  
Sarah Huse, D.O.  
Farzad Jamshidi, M.D., Ph.D.  
Maya Malaab, M.D.  
Salvador Mendez, D.O. (Prelim)  
Kristen Miller, M.D.  
Shaurya Prakash, M.D.  
Jon Puchalla, M.D.  
Taylor Remillard, M.D.  
Regan Roat, M.D., Ph.D.  
Colin Russell, M.D.  
Hampton Sasser, M.D.  
Daniel Schumacher, D.O.  
Laura Smallcomb, M.D. (Med-Peds)  
Jordan Spencer, D.O. (Med-Psych)  
John Stewart, D.O.  
Molly Stone, M.D. (Med-Peds)  
Patrick Strickland, M.D.  
Connor Sweetnam, M.D.  
Henry Tomlinson, M.D. (Prelim)  
Megan Veglia, M.D.  
Haily Vora, M.D.

## PGY-2 Residents

Poorva Apte, M.D.  
Travis Benzing, M.D.  
Laurel Branch, M.D.  
Leah Broadhurst, M.D. (Med-Peds)  
Laura Brown, M.D. (Med-Peds)  
Zane Chiad, M.D.  
Sam Dickey, M.D.  
Milad El Hajj, M.D.  
Lee Ellison, M.D.  
Jessica English, M.D.  
Susan Evenhouse, M.D. (Med-Peds)  
Sam Friedman, M.D.  
Joseph Golden, M.D.  
Paterson (George) Graham, M.D.  
Allison Hajec, M.D.  
William Harvey, M.D.  
Isaac Jaben, M.D.  
Abid Javed, M.D.  
James Kalmuk, M.D.  
Shadi Khalil, M.D.  
Ricky Lueking, M.D.  
Steven Maurides, M.D.  
Margaret Morrison, M.D.  
Tejas Nadig, M.D.  
Karan Pandya, MD  
Chelsea Shepard, D.O. (Med-Psych)  
John Smith, M.D. (Med-Psych)  
Patricia Smith, M.D. (Med-Peds)  
Brett Tomashitis, M.D.  
Nishant Trivedi, M.D.  
Cameron Wilhoit, M.D.

## PGY-3 Residents

Samuel Abbas, M.D.  
Chris Armstrong, M.D.  
Ben Barnette, M.D.  
Devin Blankinship, M.D.  
Jack Bridges, M.D.  
Neelam Chaudhary, M.D.  
Kevin Douglass, M.D.  
Edward Drehs, M.D.  
Travis Ferguson, M.D.  
Lindsay Helget, M.D.  
Andrea James, M.D.  
Carson Keck, M.D.  
John LeCluyse, M.D.  
Ben Long, M.D.  
Camilo Mateus, M.D. (Med- Psych)  
George Mawardi, M.D.  
Jose Mira, M.D.  
Prabodh Mishra, M.D.  
Mike Norred, M.D. (Med- Psych)  
Callie Osborne, M.D.  
Malshundria Prophet, M.D.  
Prashant Raghavendran, D.O. (Med-Peds)  
Chris Rangel, M.D.  
Jennifer Schmidt, M.D.  
Rani Shayto, M.D.  
Maggie Thomas, M.D.  
Mason Walgrave, M.D. (Med-Peds)

## PGY-4/PGY-5 Residents

Dustin Fowler, D.O. (Med-Psych)  
Laurie Graves, M.D. (Med-Peds)  
Boris Kiselev, M.D. (Med-Psych)  
Sarah Oros, M.D. (Med-Psych)  
Allison Smith, M.D. (Med-Psych)  
Mary Stoemann, D.O. (Med-Psych)

# 2018-2019 SUBSPECIALTY FELLOWS

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## Cardiology

Mazahir Alimohamed, M.D.  
Jessica Atkins, M.D.  
Katrina Bidwell, M.D.  
Amanda Cai, M.D.  
Christopher Capps, M.D.  
David DeMaria, M.D.  
Will Halligan, M.D.  
Daniel Hobbs, M.D.  
Emily Hodskins, M.D.  
Leah John, M.D.  
Reza Karimianpour, D.O.  
Jasjeet Khural, M.D.  
Sofy Landes, M.D.  
Amanda Northup, M.D.  
Ryan Sandoval, M.D.  
Ishan Shah, M.D.  
Norman (Brad) Stevens, M.D.  
Ashley Waring, M.D.

## Interventional Cardiology

Brian Blaker, M.D.  
Jeffrey Yourshaw, M.D.

## Electrophysiology Cardiology

Scott Koerber, D.O.  
J. Alvin Kpaeyeh, M.D.  
Joshua Payne, M.D.  
Thomas Turnage, M.D.

## Advanced Heart Failure & Transplant Cardiology

Eric Bonno, M.D.  
Michael Viray, M.D.

## Endocrinology

Fasial Aljehani, MBBS  
Elizabeth Bond, D.O.  
Katalina Funke, M.D., MSCR  
Zainab Mian, M.D.  
Fnu Shashpal, M.D.

## Gastroenterology & Hepatology

Mustafa Abdul-Hussein, M.D.  
Kevin Batte, M.D.  
Nathan Holman, M.D.  
Nicolas LaBarre, M.D.  
Briana Lewis, M.D.  
Victoria Maldonado, M.D.  
Lance McLeroy, M.D.  
Matthew Rolfsen, M.D.  
Richard Schatz, M.D.  
Nelson Seabrook, M.D.  
Clayton Spiceland, M.D.  
Charles Welden IV, M.D.

## Hematology/Oncology

Leonard Alsfeld, M.D.  
Robert Collins, M.D., MPH  
Toros Dincman, M.D., Ph.D.  
Anshu Giri, M.D.  
Gregory Haidemenos, M.D.  
Pannaga Malaur, M.D.  
Sara Matar, M.D.  
Sandra Mazzoni, M.D.  
Reena Patel, M.D.  
Shalin Shah, M.D.  
Darion Showell, D.O.  
Maggie Stafford, M.D.  
Kun "Woody" Xiao, M.D., MPH

## Infectious Diseases

Robert Jakubowski, M.D.  
Shruti Puri, M.D.  
Talha Riaz, M.D.  
Hilary Steele, M.D.

## Nephrology

Waleed Asfar, M.D.  
Jorge Chabrier-Rosello, M.D.  
Rafael David Rodriguez, M.D.  
Angela Dillon, M.D.  
Andrew Elliott, D.O.

## Nephrology

Fredrik Jenssen, M.D.  
Anna Marshall, D.O.  
Keisuke Okamoto, M.D.  
Hardik Patel, M.D.  
Adam Price, M.D.  
Harol Valenzuela, M.D.  
Adam Price, M.D.  
Harol Valenzuela, M.D.

## Pulmonary & Critical Care

Jonathan Angotti, M.D.  
Ben Beville, M.D.  
Adam Fox, M.D.  
Nick Fox, M.D.  
Todd Gandy, M.D.  
Maroun Ghossein, M.D.  
Nathan Hill, M.D.  
Daniel Hynes, M.D.  
Olusola Isikal, M.D.  
Sarah Knapp, M.D.  
Christina Mingora, M.D.  
Brad Petkovich, M.D.  
Michelle Spiegel, M.D.  
Angelina Somoracki, D.O., MPH  
Nina Thomas, M.D.

## Rheumatology & Immunology

David Dillon, M.D.  
Jamie Latos, D.O.  
Forrest Powers, M.D.  
Sonia Savani, M.D. (Med-Peds)  
Hayley Walter, M.D.  
Jennifer Winslow, D.O.



## The Jay Brzezinski, M.D. Clinician Educator Endowed Professorship

The Department of Medicine is delighted to announce the successful completion of the Jay Brzezinski, M.D., Clinician Educator Endowed Professorship campaign. The generosity and support of our many loyal donors over the past six years enabled MUSC to raise \$500,000 to make this professorship a reality. The professorship supports an exceptional junior faculty member who is committed to the clinical and educational excellence to which Dr. Brzezinski has devoted his career. On October 24, 2019, the Division of General Internal Medicine hosted a special celebration to announce the appointment of MUSC's **Andrew Schreiner, M.D.**, as the first holder of the Brzezinski Professorship.

"I am so proud and humbled that my name and this endowed professorship will encourage young physicians to become great teachers for generations to come," said Dr. Brzezinski. "Dr. Schreiner's voracious appetite for learning and his clear and deliberate teaching methods make him an obvious choice for this award."

MUSC is deeply appreciative of the donors who have contributed so generously to this professorship. This support enables MUSC to honor our faculty's clinical excellence and their commitment to teaching the next generation of internal medicine physicians.



Jay Brzezinski, M.D., and Andrew Schreiner, M.D.



## PHILANTHROPY NEWS

# The Susan Pearlstine Sarcoidosis Center of Excellence: Improving the lives of patients with sarcoidosis

The Department of Medicine is deeply grateful for Susan Pearlstine's generous financial support in establishing the Susan Pearlstine Sarcoidosis Center of Excellence. MUSC now has a robust, nationally recognized sarcoidosis program as a direct result of Susan Pearlstine's vision and her \$5 million gift to MUSC in 2013. The Center has enabled MUSC to significantly enhance treatment and care for patients with sarcoidosis while also engaging in clinical trials that could lead to new treatment options.

Under the direction of **Ennis James, M.D.**, the Center has received numerous national honors and awards. In 2019, the Center became the first clinic in the state to be recognized as a Foundation for Sarcoidosis Research (FSR) and World Association of Sarcoidosis and Other Granulomatous Disorders (WASOG) Sarcoidosis Center of Excellence. This designation provides formal recognition of MUSC's commitment to meeting the needs of sarcoidosis patients and efforts to keep abreast of the ongoing advances in sarcoidosis treatment and research.

Physicians specializing in sarcoidosis are available to see patients five days a week. MUSC uses a multidisciplinary team approach to make sure patients quickly see the best doctors for their case. Sarcoidosis care team members actively collaborate with other specialists, including those in dermatology, rheumatology, ophthalmology, cardiology, otolaryngology, and neurology. Over the past few years, the Center has increased its total patient encounters by over 40%, drawing patients from South Carolina, Florida, Georgia, Kentucky, North Carolina, and Tennessee.



Ennis James, M.D., examines patient

In promising recent developments:

- In 2019, the Center hired a new program manager, Maria Hoffman, MHA, to coordinate and streamline care for patients with sarcoidosis.
- The Center holds quarterly patient support group meetings that serve as an educational and social forum for patients, caregivers, and family members of those affected by sarcoidosis.
- In 2018, the Center was selected as one of 12 international sites to join the Foundation for Sarcoidosis Research Clinical Studies Network.

Because of Susan Pearlstine's vision and financial support, the future is very bright for the Sarcoidosis Center at MUSC and the ever-increasing number of sarcoidosis patients who receive care at MUSC.

### Support the Department of Medicine

There are many philanthropic opportunities to support our mission, and each gift to the Department makes an impact on our daily efforts. We hope that you will partner with us to advance education, expand research, and improve excellence in patient care.

**Please contact Nat Howe, Director of Development, at 843-792-4280, [howen@musc.edu](mailto:howen@musc.edu) or visit [give.musc.edu/medicine/ar](https://give.musc.edu/medicine/ar).**



Employee of the Year ceremony

# EMPLOYEE RECOGNITION

The Department of Medicine Employee of the Quarter program was established to showcase employees who have shown exemplary strides in contributing to the Department of Medicine and to the MUSC community.

Nominees consistently demonstrate exceptional service, commitment to job excellence, innovation and initiative, and go above and beyond the call of duty. At the end of the year, two Employee of the Year winners (a Team Member and a Team Leader) and two Medicine Excellence Winners (a runner-up Team Member and a runner-up Team Leader) are selected from the pool of quarterly winners. The Department would like to recognize all of our Employee of the Quarter winners from FY2019.

### Employees of the Year:

Lisa Burkhardt, MHA (Team Leader)  
*Finance Administrator, Medicine Administration*

Laura Grimball (Team Member)  
*Administrative Assistant, Infectious Diseases*

### Medicine Excellence Winners:

Elizabeth Swan (Team Leader)  
*Division Administrator, Endocrinology*

Gwen Blanton (Team Member)  
*Program Coordinator, Pulmonary*

## FY19 EMPLOYEE OF THE QUARTER WINNERS

Kris Banks-Small  
*Hematology & Oncology*

Julie Benke-Bennett  
*Endocrinology*

Megan Bickford, MS, CCRP  
*Gastroenterology & Hepatology*

Gwen Blanton  
*Pulmonary and Critical Care*

Seth Bollenbecker  
*Pulmonary and Critical Care*

Lisa Burkhardt, MHA  
*Medicine Administration*

Gayle Cox  
*General Internal Medicine*

Julie Driggers  
*Pulmonary and Critical Care*

Renee Dunn  
*Endocrinology*

Laura Grimball  
*Infectious Diseases*

Mac Houck, MBA  
*Pulmonary and Critical Care*

Janice Mazur  
*General Internal Medicine*

Matt McCoy  
*Medicine Administration*

Kavin Panneerselvam, MSCR, CCRP  
*Cardiology*

Christopher Podmore  
*Infectious Diseases*

Phallan Robbins, MHA  
*Medicine Administration*

Jessalyn Rodgers, MS  
*Rheumatology & Immunology*

Elizabeth Swan  
*Endocrinology*

## SELECTED PUBLICATIONS: FY19

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### Cardiology

**Albayram O**, MacIver B, Mathai J, Versteegen A, Baxley S, Qiu C, Bell C, Caldarone BJ, Zhou XZ, Lu KP, Zeidel M. Traumatic brain injury-related voiding dysfunction in mice is caused by damage to rostral pathways, altering inputs to the reflex pathways. *Sci Rep*. 2019 Jun 14;9(1):8646.

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*Pictured: Sheldon Litwin, M.D.*

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*Pictured: Louis Luttrell, M.D., Ph.D.*

### Gastroenterology & Hepatology

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## SELECTED PUBLICATIONS: FY19

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*Pictured: Nicolas LaBarre, M.D.*

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*Pictured: Leigh Vaughan, M.D.*

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## SELECTED PUBLICATIONS: FY19

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*Pictured: Michael Lilly, M.D.*

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*Pictured: Susan Dorman, M.D.*

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### Nephrology

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*Pictured: Josh Lipschutz, M.D.*

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### Pulmonary & Critical Care

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# SELECTED PUBLICATIONS: FY19

## Pulmonary & Critical Care

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*Pictured: Nicholas Pastis, M.D.*

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## Rheumatology & Immunology



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*Pictured: Deanna Baker-Frost, M.D., Ph.D.*

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# DEPARTMENTAL LEADERSHIP

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## ADMINISTRATION

Don Rockey, M.D.

*Chair, Department of Medicine*

Georgia Brogdon, MBA, DHSc,  
FACHE, FACMPE

*Vice Chair, Finance and  
Administration*

Elisha Brownfield, M.D.

*Vice Chair, Leadership Development*

E. Benjamin Clyburn, M.D.

*Vice Chair, Graduate Medical  
Education*

Kimberly Davis, M.D.

*Vice Chair, Clinical Affairs*

Marc Heincelman, M.D.

*Vice Chair, Quality Improvement*

Brad Keith, M.D.

*Associate Vice Chair, Graduate  
Medical Education*

Jim Oates, M.D.

*Vice Chair, Research*

Samuel Schumann, M.D.

*Vice Chair, Quality Improvement*

Richard Silver, M.D.

*Vice Chair, Development*

## DIVISIONS

### Cardiology

Thomas Di Salvo, M.D., MBA, MPH

*Division Director*

Steve Vinciguerra, MBA

*Division Administrator*

### Endocrinology

Timothy Lyons, M.D., FRCP

*Division Director*

Elizabeth Swan

*Division Administrator*

### Gastroenterology and Hepatology

Don Rockey, M.D.

*Interim Division Director*

Derek Sanford

*Division Administrator*

### General Internal Medicine

William Moran, M.D., MS

*Division Director*

Brian Collins, MHA

*Division Administrator*

### Hematology/Oncology

Carolyn Britten, M.D.

*Division Director*

*(through June 2019)*

Lee Putney, MHA

*Division Administrator*

### Infectious Diseases

Cassandra Salgado, M.D., MS

*Division Director*

Rebekah Shinta, MHA

*Division Administrator*

### Nephrology

Josh Lipschutz, M.D.

*Division Director*

Sandra Hurley

*Division Administrator*

### Pulmonary and Critical Care

Lynn Schnapp, M.D.

*Division Director*

Richard "Mac" Houck, MBA

*Division Administrator*

### Rheumatology and Immunology

Jim Oates, M.D.

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*Division Administrator*

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Department of Medicine  
96 Jonathan Lucas Street, Suite 812, MSC 623  
Charleston, SC 29425-5500

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