



Michael P. Madaio, MD
Sydenstricker Professor & Chairman

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DIVISION OF CARDIOLOGY



Left to Right First Row: Jacob Misenheimer, MD, Neal Weintraub, MD, John Thornton, MD, Adam Berman, MD, Preston Conger, MD, Vincent Robinson, MD. **Second Row:** Deepak Kapoor, MD, Gyanendra Sharma, MD, Pascha Schafer, MD, Robert Sorrentino, MD. **Third Row:** Gurpreet Johal, MD, S. Ratanapo, Sean Javaheri, DO. **Fourth Row:** Christina Dookhan, MBBS, Tarun Sharma, MD, Abdullah Omar, MD, Haitham Hreibe, MD, Albert Sey, MD

RESEARCH

The Division has a very strong basic research program housed in the Vascular Biology Center (VBC). Principal investigators include Drs. Eric Belin De Chantemele, Masuko-Ushio Fukia, Yaoliang Tang, and Neal Weintraub, who together are funded by 8 R01 grants from the National Institutes of Health and accounted for 21 publications in 2017. These investigators are internationally recognized for their expertise, as evidenced by invited lectureships and service on editorial boards and grant review panels. The interdisciplinary basic research program is centered on vascular biology, obesity, and cardiac stem cell biology, with many collaborations extending across campus. Dr. Vincent Robinson, an associate member of the VBC, has a translational research program in thrombosis that includes a startup biotechnology company focused on developing a novel laboratory-based thrombosis assay.

The Division also has a robust clinical research program focused on interventional cardiology, cardiac electrophysiology, and cardiac imaging leading to numerous investigator-initiated projects and publications. Many multicenter clinical trials are also conducted by the Division, including cutting-edge trials in cardiac stem cell transplantation for patients with congestive heart failure, the only trials of their kind being conducted in the region.

CLINICAL/COMMUNITY SERVICE

The Division is composed of nineteen faculty members and six advanced practice providers. Under Dr. Adam Berman's leadership over the past year, the Division experienced continued growth particularly in regional outreach. Our cardiologists have clinical practice sites in five Georgia counties. Recently the faculty numbers grew with the addition of Dr. Stephanie Dunlap and Dr. Doug Miller. Dr. Dunlap specializes in advanced heart failure and has been recruited to AUHS to develop a surgical ventricular assist device (VAD) program in collaboration with Cardiothoracic Surgery. Dr. Miller, former Dean of the Medical College of Georgia, returns to Augusta to help lead the launch of cardiology outreach practice in Columbia County, as well as further expand cardiac MRI services. Dr. Vishal Arora has led a multi-disciplinary effort to launch the AUHS interventional pulmonary embolism response team (PERT). Dr. Deepak Kapoor, cardiac cath lab director, has further developed our complex high-risk coronary interventional program with special emphasis on interventions for coronary artery chronic total occlusions.

Dr. Jacob Misenheimer helped create and launch a collaborative valvular heart disease practice shared with cardiothoracic surgery, offering patients a real-time multi-specialty opinion regarding their valvular heart disease. The cardiac electrophysiology program remains the regional leader in catheter ablation procedures, performing over 450 ablations last year. Our cardiovascular team has also undergone training to launch the use of the Impella RP© percutaneous right heart VAD to complement our existing use of the Impella© percutaneous left-sided VAD. The Division has further expanded its clinical footprint by recruiting Jackie Kalv, NP to support the Cath Lab and Cathy Richards, NP who will be working in our advanced CHF clinic.

EDUCATION

The fellowship program continues to have remarkable academic and professional success. It maintains program a greater than 80% pass rate of first time takers, and placement of graduating fellows continues to be 100% successful at tier one institutions. The last graduating class placed one fellow in a two-year electrophysiology training program at the University of Alabama, one in interventional cardiology at Emory, one in a one year Advanced Imaging Fellowship at Piedmont Heart Institute (Atlanta); another fellow became general cardiology faculty at the Mayo Clinic in Eau Claire, Wisconsin. The fellows and faculty continue to present their research at regional and national meetings. Dr. Vincent Robinson, the Program Director, was appointed as a member of the national ACC Young Investigators Awards Committee. The faculty are recognized as outstanding educators, and two faculty members were presented with Exemplary Teaching Awards: Dr. Christopher Pallas for excellence in teaching in graduate medical education and Dr. Sean Javaheri for excellence in teaching for undergraduate medical education. The Division remains active in teaching medical students with four faculty members involved in ECM teaching and Drs. Neal Weintraub and Vincent Robinson mentored 7 MSP students in clinical and basic research over the academic year.

DIVISION OF DERMATOLOGY



Left to Right: Rachel R. Marks, MD, Ashley D. Brown, MD, Kendall R. Liner, MD, Loretta S. Davis, MD, Morgan W. Thakore, MD, Lauren E. Jenkins, MD, Abena O. Oforio, MD, Laura C. Cleary, MD, Kaitlyn S. Powell, MD, Weston B. Wall, MD, Deanna I. Dickerman, MD, Jaclyn N. Hess, MD, Daniel J. Sheehan, MD. **Not Pictured:** Christy Rainey, MD, Adeline Johnson, MD

RESEARCH

Dermatology is conducting an investigation to determine if the levels of proteins involved in moisturization of the skin are abnormal in people with psoriasis. Small skin biopsies from normal-appearing or lesional skin from people with psoriasis will be compared with healthy individuals.

All full-time faculty have been involved in research to a varying degree along with the encouragement for all residents to participate in some type of research. Other historical and completed research include, but are not limited to:

- Evaluation of potent topical steroids in terms of systemic absorption and efficacy
- New therapeutic agents for acne vulgaris
- New therapeutic agents for superficial fungal infections
- Hair root protein analysis as a measure of human protein malnutrition
- Skin reactive factors in *Candida Albicans*
- Therapeutic agents in congenital porphyria
- New topical corticosteroids for the treatment of psoriasis
- Phenytoin treatment of epidermolysis bullosa
- Hepatitis B infections in dermatology
- Nutritional factors such as selenium in prevention of skin cancer

CLINICAL/COMMUNITY SERVICE

Dermatology physicians have a broad range of clinical experience with special focus in general (includes procedures) dermatology, Mohs surgery and cosmetic dermatology as well as special interest in pediatric dermatology.

Historically, Dermatology physicians manage a large volume of patients, and Dr. Loretta Davis is the go to Dermatologist at the Medical Center. Typically, general dermatology practice sessions are very busy and they evaluate 40+ patients per session. The Mohs surgery and cosmetic dermatology practices provide special expertise and patient care. Collectively the practice is a major resource for the region. Dr. Davis has special expertise in autoimmune diseases involving the skin, and her group provides exceptional service in this area.

EDUCATION

MCG Dermatology is an ACGME accredited three-year residency program, which prepare physicians for either an academic or clinical career. The Dermatology Training Program continues to attract excellent resident applicants. Training is graduated and comprehensive, with increasing levels of responsibility throughout the three year residency program. Over the years, new and more sophisticated diagnostic and therapeutic modalities have been introduced into the training program through conferences, lectures, visiting professors, and seminars at a regional and national level.

MCG Dermatology hosted the Southeastern Consortium for Dermatology in November 2017 at the Augusta Marriott Convention Center. Over 200 dermatologists attended this 41st meeting of the Consortium. This annual education conference represented by 10 medical schools from the Southeastern US. The keynote speaker was an MCG trained dermatologist, Dr. Kim Yancey, currently Chair of the Department of Dermatology at the University of Texas Southwestern Medical Center in Dallas. His topic was *"Blistering Diseases: Then and Now"*. Over the course of the weekend, there were 17 speakers and over 80 poster presentations. Additionally the MCG Dermatology Division recruited over 50 patients with unique dermatologic problems to educate the attendees. Participants were able to view and interact with the patients in a clinical environment and attend clinical discussion of each patient. The event would not have been possible without the tremendous effort by the Dermatology Residents.

In 2017, MCG Dermatology celebrated the 50th anniversary of the Residency program. Since its inception, MCG Dermatology has trained 140 Dermatologists. During the celebration, a portrait of Dr. Jack L. Lesher, Jr., was unveiled on Saturday evening's alumni dinner. Dr. Lesher was the 3rd Dermatology Chief and Residency Program Director. He retired from MCG in 2010 after 25 years of service.

As a result of these activities, financial pledges obtained by the AU/MCG Office of Advancement totaling \$137,500 of expendable funds, payable over 5 years, will be a tremendous asset in supporting our Dermatology Residency Program.

DIVISION OF ENDOCRINOLOGY, DIABETES AND METABOLISM



Left to Right Top Row: Maximillian E. Stachura, MD, Anthony L. Mulloy, DO, Edward Chin, MD, Rene´ J. Harper, MD
Bottom Row: David J. Terris, MD, Bridget P. Sinnott, MD, Carlos M. Isales, MD

RESEARCH

Regenerative medicine and stem cell biology are important areas of research. Extramural funding in the Department includes a Program Project Award (P01AG036675) sponsored by the National Institutes on Aging focuses on the impact of aging on nutrient sensing. A critical barrier to correcting the problem of musculoskeletal dysfunction with aging is a poor understanding of how nutrient-related stimuli and epigenetic mechanisms interact to induce bone and muscle loss. Findings from the Endocrine faculty demonstrate that aging is associated with epigenetic modifications of musculoskeletal stem cells, and these modifications may be responsible for the impaired age-related nutrient sensing. The central hypothesis is that aging alters epigenetic regulatory systems (e.g., miRNA, acetylation) that act through nutrient signaling pathways on stem cells to affect musculoskeletal development and function. There are strong collaborations with the Basic Science Departments to further pursue mechanisms and therapies in this area.

The Endocrine Division is the Primary investigator for the VAMC “Testosterone Replacement therapy for Assessment of long-term Vascular Events and efficacy ResponSE in hypogonadal men (TRAVERSE) Study” a phase IV multicenter, placebo-controlled cardiovascular outcome study to assess safety and efficacy of treatment with testosterone replacement therapy in symptomatic hypogonadal men at high risk for C-V disease. This study, with planned enrollment of 6,000 subjects will follow participants for up to five years. Other research programs include studies on the hormone modulation of bone metabolism, stem cell regeneration, signal transduction of aldosterone secretion

and genetic mutations in primary hyperaldosteronism.

CLINICAL/COMMUNITY SERVICE

The endocrinologists have a broad range of clinical experience with special focus in areas of diabetes, metabolic bone disease, pituitary and thyroid disease. The Diabetes Clinic delivers multidisciplinary care for type 1 and type 2 diabetes and specializes in care for patients that require multi-drug therapy. New diabetics undertake a comprehensive evaluation by an Endocrinology Team that includes a Certified Diabetes Educator to provide counseling and training. They assist patients and their primary care providers to formulate a treatment plan using new insulins, other injectable therapies, and cutting-edge technologies including Bluetooth Glucose Meters, Continuous Glucose Monitors and Insulin Pumps. The Metabolic Bone Disease Clinic provides care for patients with the full spectrum of bone disorders. The Clinic has facilities for bone biopsy and bone densitometry analysis (DEXA). The Multidisciplinary Pituitary Clinic provides patients with pituitary tumors and other neuroendocrinologic disorders a single point of service with access to physicians with neuroendocrine and neurosurgical expertise. In a single visit, patients undergo their required imaging, and meet with the specialists appropriate for their care. The Metabolic Kidney Stone Center offers a comprehensive approach to kidney stone management. Endocrinologists, nephrologists, urologists, dieticians and radiologists work together to ensure that patients receive the most effective and up to date treatment. The Thyroid/Parathyroid Center is a specialized multidisciplinary practice that includes expertise of endocrinologists, surgeons and radiologists dedicated to providing outstanding medical and surgical care. This “one-stop care” approach serves patients with the full range of structural and functional thyroid and parathyroid disorders. State-of-the-art diagnostic tests include advanced techniques such as endoscopic (minimally invasive) thyroid and parathyroid surgery, and ultrasound-guided fine needle biopsy for the diagnosis and treatment of thyroid and parathyroid conditions such as thyroid nodules, multinodular goiters, thyroid cancer, hyperthyroidism, hyperparathyroidism and hypercalcemia.

EDUCATION

The two-year ACGME accredited endocrinology fellowship is designed to deliver well-rounded training in endocrinology for the exceptional individual pursuing a highly successful career in academic medicine or clinical practice. The fellowship has maintained a board pass rate of 100%. Our faculty excel in teaching medical students, residents and fellows in the classroom and at the bedside. The highly regarded endocrinology elective for medical residents provides inpatient and outpatient experiences at Augusta University Health and the Veterans Administration Hospital. The faculty are actively involved in education on the national level. Dr. Bridget Sinnott has served as a Beta Tester for ABIM Endocrinology, Diabetes & Metabolism self-assessment modules since 2014. Dr. David Terris serves as the Vice Chair for the ACGME Residency Review Committee Review Committee for Otolaryngology.

DIVISION OF GASTROENTEROLOGY/HEPATOLOGY



Left to Right Front Row: Lavanya Viswanathan, MD, Subbaramiah Sridhar, MBBS, Satish Rao, MD, Leonard Little, MD, Thomas Kiernan, MD, Eula Tetangco, MD. **Middle Row:** Nicole Martinez de Andino, NP, Supanee Rassameehiran, MD, Steve Ellison, MD, Anna Walker, PA. **Back Row:** Charles Spurr, MD, Mayelin Gomez, NP, Jai Eun Lee, MD, Humberto Sifuentes, MD, Rami Abboud, MD, Pomchai Leelasinjaroen, MD, Amol Sharma, MD, George Tan, MD. **Not Pictured:** Jigar Bhagatawala, MBBS

RESEARCH

GI fellows presented 26 abstracts to annual meetings; Digestive Disease Week, American College of Gastroenterology and the World Congress of Gastroenterology. Five were accepted for oral presentations. GI fellows participated in research opportunities that allowed outside rotations. Including the Kansas City, Missouri VA Hospital and a visiting IBD fellowship at Northwestern University through the Crohn's and Colitis.

CLINICAL/COMMUNITY SERVICE

Dr. Thomas Kiernan served as Chief of the Division that provides clinical care and service for virtually every subspecialty of gastroenterology, including endoscopy, hepatology, IBD, neurogastroenterology and motility. The gastroenterologists and hepatologist share the clinical practice center of 14 exam rooms as well as the endoscopy unit of 10 rooms. They offer comprehensive care for patients with GI and liver disorders and operate a range of specialty clinics including the area's only Motility Clinic. The Motility Clinic is one of 10 in the nation designated as a Center of Excellence by the American Neurogastroenterology and Motility Society. Dr. Satish Rao and Dr. Amol Sharma lead the team that provides comprehensive care for complex motility disorders. Dr. Humberto Sifuentes, an expert in inflammatory bowel disease provides state-of-the-art clinical practice for more than 400 patients with these disorders. Drs. Subbaramiah Sridhar and

Steven B. Ellison provide highly skilled advanced endoscopy services. The division includes two well-trained and skilled advanced practice providers that support the clinical mission. Faculty members continue to support its affiliate program in GI/Hepatology at the Charlie Norwood VA Medical Center, sharing patient care with two general staff gastroenterologists at this location.

Dr. Kenneth Vega, Professor of Medicine at National Jewish Health, in Denver Colorado will be joining the faculty as Chief of Gastroenterology and co-Director of the Digestive Health Center in the spring of 2018. Dr. Vega brings expertise in esophageal motility and esophageal cancers, along with racial disparities in diagnosis and treatment of gastrointestinal disorders. He takes the reins from Dr. Thomas Kiernan who served as Division Chief for the past year and a half. Dr. Kiernan did an outstanding job that included faculty and clinical growth, along with providing outstanding clinical care for patients and state of the art educational experiences for trainees and students.

EDUCATION

The Division offers a well-balanced fellowship program of clinical care, education and research. Fellows are exposed to general gastroenterology, a strong referral base clinical care program, along with basic, translational and clinical research. Fellows train at the Digestive Health Center and the Charlie Norwood VA Medical Center under the supervision of 8 full-time and 1 part-time faculty members. The Division has a busy consultation service and specialty clinics at both locations. Gastroenterology/ Hepatology rotations include: MCG/DHC Endoscopy, Motility, and consults as well as VA Endoscopy, consults and research.

The Division has 8 gastroenterology fellows per year in a 3-year training program. Drs. Sridhar and Sifuentes continue to supervise and coordinate the fellowship program with Anita Rainwater as Fellowship Coordinator.

Gastroenterology fellows participate in GI Conferences in which they either present or coordinate (10 per month). They include: Problem Case Conference, Core Education, Conference, Faculty/Visiting Professor Conference, Pathology Conference, Radiology Conference, Board Review, Clinical Video Case Conference, IBD Conference, Research Conference and Journal Club. All conferences are setup to receive Continuing Education Credit through our University for AU and visiting physicians.

The fellowship program boasts a 100% gastroenterology board-examination pass rate for the past 10 years. Graduates of the program have become clinicians, educators and researchers at prestigious institutions throughout the country.

DIVISION OF GENERAL INTERNAL MEDICINE



Left to Right Front Row: Christos Hatzigeorgiou, DO, Lee Merchen, MD, Namita Mohanty, MD, Shilpa Brown, MD, Thomas Dobosz, MD, **Mid Row:** Thad Carson, MD, Dean Harrell, MD, Pamela Tipler, MD, Scott Graupner, MD. **Back Row:** William Salazar, MD, David Fallaw, MD, Amer Sayed, MD. **Not Pictured:** Wanda Jirau-Rosalay, MD, Ryan Keen, MD, Zunair Afghani, MD, Ajay Pillai, MD.

RESEARCH

Division faculty are involved with Health Services Research, Health Outcome Research and Academic Research, which include the following projects:

- Garfield AFIB Multicenter Study, Garfield VTE Multicenter Study
- COVET Study Sponsored by Patient Central Outcome Research Outcome (PCORI)
- Sprint Co-Investigator: The Systolic Blood Pressure Intervention Trial. NIH
- Efficacy, Immunogenicity, and Safety Study of C. Difficile Vaccine
- Time in Therapeutic Range for Patients on Warfarin Therapy
- Interventions Study for Diabetes Mellitus 2 and Interventions Study for Pre-diabetics
- Philips Protocol Co-Investigation: Early Deterioration Detection on MedSurg Units
- Development of a Global Health Curriculum
- Development And Implementation Of A Blended Learning Environment On Wards
- Are AHA Guidelines For Blood Pressure Measurement Followed

CLINICAL/COMMUNITY SERVICE

The General Internal Medicine Faculty and Residency Practice at Augusta University Health offer comprehensive, evidence-based care in the management of Chronic Disease and Preventive measures. The group has two Geriatric, certified physicians specializing

in comprehensive Geriatric Assessments. A Nurse Practitioner and Clinical Pharmacist provide team-based healthcare delivery.

The Travel Advisory Clinic is devoted to the comprehensive preparation and follow-up care of international travelers.

On the inpatient services, the Internal Medicine faculty provide clinical care and expertise for inpatient medicine at Augusta University and simultaneously train internal medicine residents and medical students on three inpatient teams.

GIM faculty are actively involved in many bold and innovative clinical programs in the community, such as building a new clinical practice in downtown Augusta and developing a Global Health Certificate program. Community involvement include faculty leadership and participation in the following; Clinica Latina, Clinica Pediatrica, Equality Clinic and the Costa Layman Clinic at Augusta University. Faculty participate in mission trips to less served areas, including: including Guatemala, Sierra Leone, Uganda, and Gambia.

Faculty Membership/Mentorship is provided for the following: AU Student National Medical Association Clinical Advisor, AU Minority Association of Premedical Students, AU Residency Match Advisor for Internal Medicine, Founding Director: Internal Medicine Scientist Program, AU Military Medical Students, AU Medical Student Choir/SeroTONEins, and MCG Academic House Advisors.

Dr. David Fallaw continues to provide leadership in overall patient care informatics, the EMR, and overall health system operations, and he is ever-present within the Medical Center, Medical College and University. He represents Augusta University and AU Health at the national level, and his knowledge, availability, contributions and collegiality are unsurpassed. Dr. Fallaw leads the Department's Medical Economics Course for Medicine Residents, and this effort has led to resident participation in many quality improvement projects for the Health System.

EDUCATION

Internal Medicine faculty are leaders in the training and education of learners at many different levels including: medical students, residents, nursing staff and advanced practice providers. This includes active participation in multiple phases of MCG education: Clerkship Director for Ambulatory Clerkship, Clerkship Director for Internal Medicine, Director for Physical Diagnosis Courses and Simulation Activity for Second Year Students. Several GIM faculty are involved with multiple phases of the Problem-Based Learning and Physical Diagnosis modules. General Internal Medicine faculty provide= numerous lectures at the medical school, which include various Geriatric topics, evidence-based medicine and Pharmacology/Cardiovascular Modules.

The faculty are recognized each year by many awards and citations for excellence in bedside, classroom and methods of education.



Heme-Onc Fellows. Left to Right: Hem/Onc Fellows: Top Row: Khurram Tariq, MD, Imran Ahmad, MD Felix Mensah, MD, Sarfraz Nawaz, MD, Germame Ajebo, MD, **Mid Row:** Kristine Badin, Priyanka Raval MD, Bushra Waseem, MD, **Bottom Row:** Rohini Chintalapally, MD, Chisom Onuoha, MD. **Faculty (Not Pictured):** Anand Jillella, MD, Abdullah Kutlar, MD, Claude Sportes, MD, Paul Dainer, MD, Asha Nayak, MD, Zhonglin Hao, MD, Jeremy Pantin, MD, Jigarkumar Parikh, MD, Locke Bryan, MD, Hima Boppidi, MD

RESEARCH

Clinical Research Programs includes Acute Promyelocytic Leukemia, a highly curable malignancy with cure rates in excess of 90% in multi-center clinical trials. The induction mortality in clinical trials is approximately 5%. However, it is well known from several institutional as well as population-based studies that induction mortality can be as high as 30%. Patients who survive induction have a cure rate in excess of 90% with few late relapses. Dr. Anand Jillella has developed a highly successful induction protocol, and he serves as the PI and study chair on this ECOG-ACRIN investigator-initiated trial that will apply the approach nationally.

Drs. Abdullah Kutlar and Robert Gibson have found a non-invasive way to identify children with sickle cell disease who are at risk for stroke, changing treatment standards and also showing that regular blood transfusions can dramatically reduce that risk. They are also a study site for hydroxyurea, the first FDA-approved medicine for this condition (a second drug was approved only this past summer). Today, Drs. Abdullah Kutlar and Robert Gibson are leading a \$4.4 million National Institutes of Health-funded study, to determine why (nearly two decades after approval), only a small percentage of patients

take hydroxyurea when evidence indicates most would benefit. Dr. Jeremy Pantin leads the first large NIH-funded multi-center trial (20 sites) that explores whether bone marrow transplants should be part of the standard of care for sickle cell disease patients. One of the first patients in this national study was enrolled at AU. All of the faculty continue to lead and/or participate in clinical trials in oncology. The faculty and staff participate in clinical protocols and new trials for all major malignancies

CLINICAL/COMMUNITY SERVICE

The Division of Hematology and Oncology is dedicated to the care of patients with cancer and blood disorders. The Division provides services to the CSRA community through several comprehensive programs: Bone Marrow Transplant Program, Solid Tumor Oncology Program, Comprehensive Sickle Cell Center, Adult Hemophilia and Hemostasis Program, Georgia Cancer Center Infusion Center, Sickle Cell Monthly Outreach Clinic to three cities in Georgia, and Weekly Washington County Regional Medical Center Outreach Clinic.

A multi-disciplinary approach to outpatient care is provided in the Comprehensive Cancer Center where medical, surgical, gynecological, and radiation oncologists are available. It is staffed by physicians, nurse practitioners, physician-assistants. They provide a full range of ancillary and consultative services including evaluation, initiation, and continuity of care of patients, by utilizing innovative approaches technologies. The Division develops and uses many clinical protocols and is adding new trials for all major malignancies. Cooperation with the community physicians has resulted in MCG seeing the majority of the patients with hemoglobinopathies, coagulation disorders, acute leukemia, and stem cell transplants. Faculty and staff participate in patient care in specialized clinics such psycho-oncology, survivorship, lymphedema and genetics counseling.

The Bone Marrow Transplant Program is dedicated to providing outstanding medical care for patients with multiple myeloma, leukemia, Hodgkin's, non-Hodgkin's lymphoma and other malignant hematology diseases.

The internationally recognized Sickle Cell Center and Adult Hemophilia Practice continue to provide services for patients in the region and beyond.

EDUCATION

The Division is approved for a total of nine ACGME, highly competitive, fellowship positions for a three-year combined training program in hematology and medical oncology, 3 fellows a year. Educational program activities for the fellows include, but are not limited to, didactic lectures, visiting professor lectures, grand rounds, conferences, and various multidisciplinary cancer meetings.



Left to Right: David Haburchak, MD, Stuart Thompson, PhD, Jose Vazquez, MD, Cheryl Newman, MD, Rodger MacArthur, MD, Peter Rissing, MD, Stephanie Baer, MD, Rhonda Colombo, MD, Andrew Chao, MD. **Not Pictured:** John Fisher, MD

RESEARCH

The translational research effort includes 18 clinical studies in either Phase I, II, III, or IV. These studies embrace a broad spectrum of infections and antimicrobials including emerging antiviral therapy to treat HIV (including once monthly HAART), and novel agents to treat Influenza infections. In addition, newer antifungal agents to treat systemic fungal infections such as *Candida*, *Aspergillus* and *Mucor*, as well as novel antimicrobial agents that target MDR bacterial, including carbapenemase resistant enterobacteriaceae (CRE) such as *Klebsiella* and *Enterobacter* are being evaluated. Basic science research programs include studies evaluating biofilms and adherence in *Campylobacter* and *Helicobacter*, including gene expression. Additionally, studies are evaluating and characterizing polymicrobial biofilms, becoming one of only three sites in the world that study polymicrobial biofilms.

Dr. Arin Rao leads a Mathematical Modeling Center with numerous projects, including mathematical models of syphilis infections, HIV infections in rural Georgia, risk factors for invasive fungal infections, and predictors of no show rates in HIV-positive subjects.

Investigators currently participate as a study site for the NIH/Antimicrobial Leadership Group (ARLG) which is evaluating newer therapeutic options, such as monoclonal antibodies to treat bacterial infections, as well as phage therapy for MRSA bacteremia. The ID Translational and Clinical Trial Group generated approximately \$1.1 million in 2017, an increase of about 30% from 2016.

CLINICAL/COMMUNITY SERVICE

ID physicians have a broad range of clinical experience and offer diagnosis and management recommendations for a variety of infectious diseases including hepatitis B and C, HIV, chronic wounds care, STIs, bone and joint infections, tuberculosis, drug resistant bacterial infections, cutaneous and systemic fungal infections, infections in immunocompromised host, and infections in prosthetic devices. The Division also maintains a full-time antimicrobial stewardship program and provides outpatient antimicrobial therapy recommendations.

The ID faculty and fellows see approximately 200 consults/month, and they discharge and manage approximately 20 patients/month on outpatient parenteral anti-infective therapy. They staff the General Medicine “Green Teaching Service” for 10 months per year. The Ryan White HIV Program which has been fully functional for > 20 years manages > 1400 HIV patients at AU sites. The program provides a multidisciplinary approach to the care of HIV patients and is staffed by physicians, physician assistants, HIV educators, case managers, HIV specialty pharmacists, nutritionists as well as a full range of ancillary and consultants including a psychologist, a dentist, and a psychiatrist. In addition, a vibrant Telehealth practice offers weekly HIV care to approximately 370 HIV-positive subjects in a Ryan White Clinic in Dublin, Georgia. The ID faculty provide weekly HIV and hepatitis care to individuals in the Georgia Department of Corrections. The Ryan White Outreach team offers point of care testing throughout the community to an average of 86 individuals per month. These rapid result tests are offered to targeted populations in our 13 county district region. The Ryan White Program and 340B program generated \$5,346,000 in 2017.

EDUCATION

A two-year fellowship in infectious diseases to prepare physicians for either academic or independent clinical careers is highly competitive. Many ID staff serve on national and regional committees and participate in organizations that help shape the educational training of medical students, resident, physicians and fellows.

ID faculty are regularly recognized for excellence in teaching. Faculty and fellows assist with PBL, physical exam courses, medicine didactics, academic half-days, and medicine afternoon reports. The ID Faculty also strive to provide education to all departments across the medical center.

Dr. Jose Vazquez is intimately involved in the Mycosis Study Group (MSG) a working group evaluating diagnostic assays and novel antifungals. The committee recommends management of Candidemia and Invasive candidiasis. He also serves on the ARLG. As an expert in HIV and antiretroviral resistance. Dr. Rodger MacArthur has been involved in developing algorithms for the management of HIV. The ID Faculty are active in teaching 2nd year medical students in Microbiology, and they continue to receive awards for educational excellence.

DIVISION OF NEPHROLOGY



Left to Right: N. Stanley Nahman, MD, John White, MD, William Paulson, MD, Ahmad Kabbani, MD, Michael Madaio, MD, Carlos Zayas, MD, Matthew Diamond, MD, Imran Gani, MBBS, Azeem Mohammed, MBBS, Matthew Peters, PA-C, Sandeep Padala, MBBS, Omar Saleem, MBBS **Not Pictured:** Mulloy, Laura, DO.

RESEARCH

The Division continues with sponsored research efforts with six trials currently active. Three of these are sponsored by industry/pharma grants, three are sponsored by the Mason Trust.

The ACCESS trial with PI Dr. William Paulson, a study designed to evaluate arteriovenous fistula outcomes in hemodialysis patients with perivascular sirolimus-eluting collagen implant, is currently enrolling subjects.

Dr. Laura Mulloy is currently the principal investigator in two sponsored studies, the ASCEND-ND and ASCEND-D trials, which investigate use of daprodustat versus erythropoietin. The ASCEND-D trial is for dialysis patients, and the ASCEND-ND study is a chronic kidney disease patient trial. She also serves as a national leader for the ASCEND study group.

Of the three studies sponsored by the Mason Trust, Dr. Mulloy serves as the PI for AU in the RaDIANT study, working with Emory University faculty to investigate and intervene in racial disparities in transplant access in the state of Georgia. Dr. Mulloy also has continued with HLAG research with Dr. Analolij Horuszko to prevent rejection and prolong transplant survival in patients. Dr. Carlos Zayas is the principal investigator in a study IDO expression in human renal transplantation via review of biopsy samples, and Dr. Stan Nahman works with Dr. Todd Merchen in the study of rejection in a large animal model of kidney transplantation.

Dr. Nahman also leads for the Translational Research Program for the Department of

Medicine. As such, he engages with research through student and resident involvement as well as his own studies, which have continued to garner funding for the department through partnerships with Dialysis Clinic, Inc and the Mason Trust.

Dr. Rudolf Lucas (Pulmonary) and Dr. Madaio have secured NIH funding to develop novel peptide-based strategy to inhibit deleterious TNF signaling in nephrotoxic nephritis delivering therapeutic agents to glomeruli during the course of glomerulonephritis to alter the course of disease.

Fellows and faculty continue to present at both regional and national events, such as the American Society of Nephrology meeting and the Southern Society of Clinical Investigation meeting. Dr. Muhammad Saleem was awarded third place in the Young Investigator's competition for the project "Utility of Lung Ultrasound B-Lines in Volume Assessment of End Stage Renal Disease Patients on Hemodialysis".

CLINICAL/COMMUNITY SERVICE

The Division, which includes kidney transplant, offers a full program of inpatient and outpatient clinical care, outpatient dialysis and teaching. Nephrologists treat patients with chronic kidney disease, acute kidney injury, diabetic kidney disease, complex hypertension, glomerular and tubulointerstitial diseases, kidney stones, anemia, mineral and bone diseases, and a wide spectrum of electrolyte disorders.

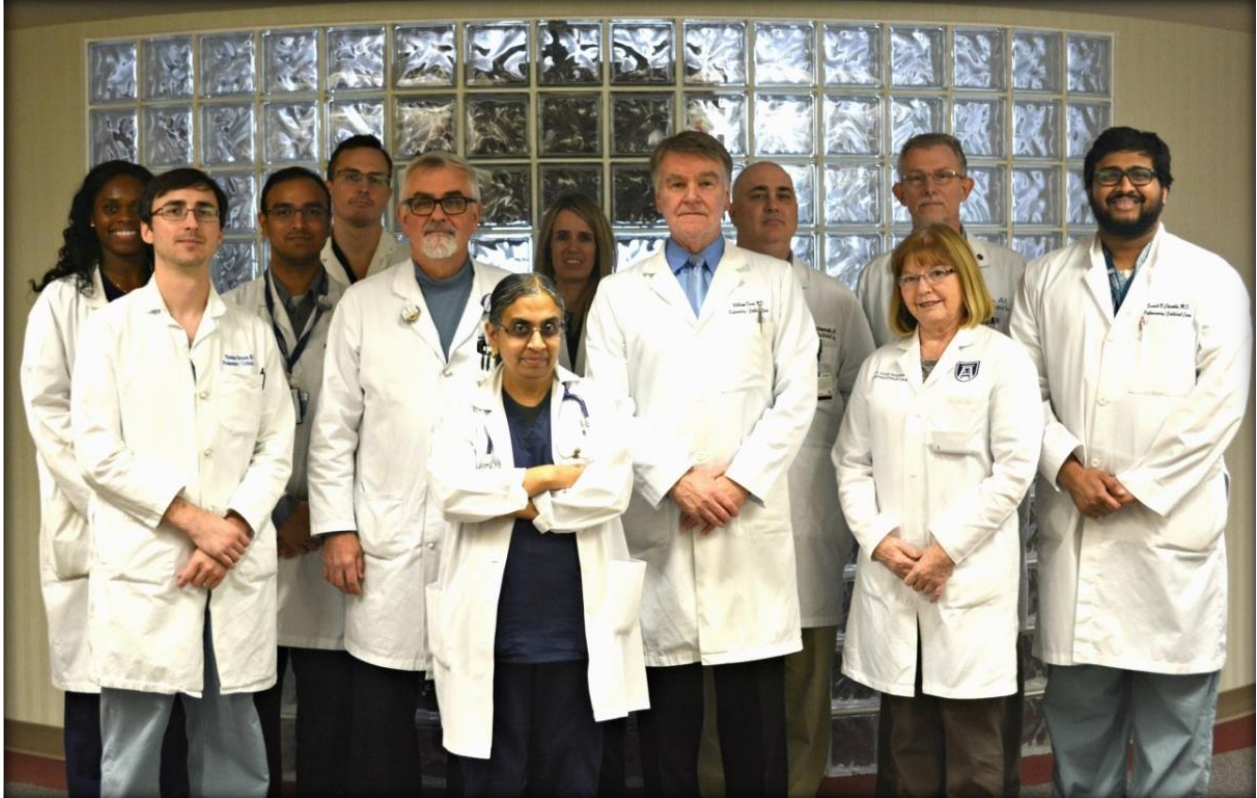
The Division has broadened its footprint by expanding outpatient dialysis, including a medical directorship in Aiken, SC, and a Home Dialysis medical directorship in Augusta, in collaboration with Fresenius Medical Care. In addition, AU Nephrology continues its agreement with Sanderling Renal Services in developing renal telemedicine in the surrounding rural communities. These endeavors have brought new clinical revenue and new medical directorships to the Division.

Kidney Transplant continues with ongoing outreach efforts including off-site clinics in Savannah, Albany, and Columbia. The faculty frequently interact with private practice physicians to ensure ongoing referral relationships.

Dr. Mulloy is a regional leader for the National Kidney Foundation, which serves patients with kidney diseases throughout the region.

EDUCATION

Despite downtrends in nephrology applicants nationally, the division continues to attract qualified applicants. Nephrology maintains continued accreditation with no citations as of 2018. Didactic offerings, evaluation methods, and educational settings are continually reassessed to create an attractive environment for applicants. Fellows participate in peritoneal dialysis education with community nephrologists. Residents and students rotate on inpatient and outpatient electives, and faculty and fellows get high marks for teaching excellence.



Front Left to Right: Thomas Fortson, MD, Thomas Dillard, MD, Varsha Taskar, MD, William Davis, MD, Joyce Gonzales, MD, Parth Jamindar, MD. **Back Left to Right:** Meshia Wallace, MD, Tarun Kukkadapu, MD, Bret Stysly, MD, Caralee Forseen, MD, Clark McDonough, MD, James Gossage, MD. **Not Pictured:** Amy Blanchard, MD, Anita Rao, MD, Sumit Chawla, MD, Crystal Duran, MD, Matthew Miles, MD

RESEARCH

Dr. Joyce Gonzales worked closely with investigators in the Vascular Biology Center, including Dr. Ralf Lucas and Dr. Alexander Verin and within the Sickle Cell Center, including Drs. Betty Pace and Julia Brittain. Her research involves the study of the pulmonary endothelium in Acute Respiratory Distress Syndrome and Sickle Cell Acute Chest Syndrome. A focus is on the protective effect of a low anticoagulant heparin, 2-O, 3-O desulfated heparin (ODSH) in Gram positive and Gram negative infectious disruption of the pulmonary endothelium. The mechanism of protection of ODSH occurs through the thrombin protease activated receptor-1 thereby protecting against thrombin induced endothelial disruption and loss of barrier function.

Dr. James Gossage continues an active clinical research program in pulmonary vascular disease. His recent research involves investigation of different clinical manifestations of Hereditary Hemorrhagic Telangiectasia (HHT). Dr. Gossage was a co-author on two multi-institutional trials published in 2017 examining the treatment of brain arteriovenous malformations in HHT and the prevalence of anemia in HHT. There is one full time PhD research faculty member and additional PhD research associates in the Vascular Biology Center including Drs. Lucas, Verin, Su and Siddaramappa.

CLINICAL/COMMUNITY SERVICE

The Division offers a well-balanced program of clinical care. There are currently 11 faculty members and nine pulmonary fellows. Critical care is the mainstay of the program with the Division managing the very busy medical intensive care units at Augusta University Medical Center and at the Augusta VA.

The Division provides specialty programs, consultation services, bronchoscopy and pulmonary function testing labs. Specialties include: the Georgia Sleep Center, the Adult Cystic Fibrosis program, the Pulmonary Vascular Disease Program, the HHT Program, and the Tuberculosis Clinic. These programs serve patients in the State of Georgia.

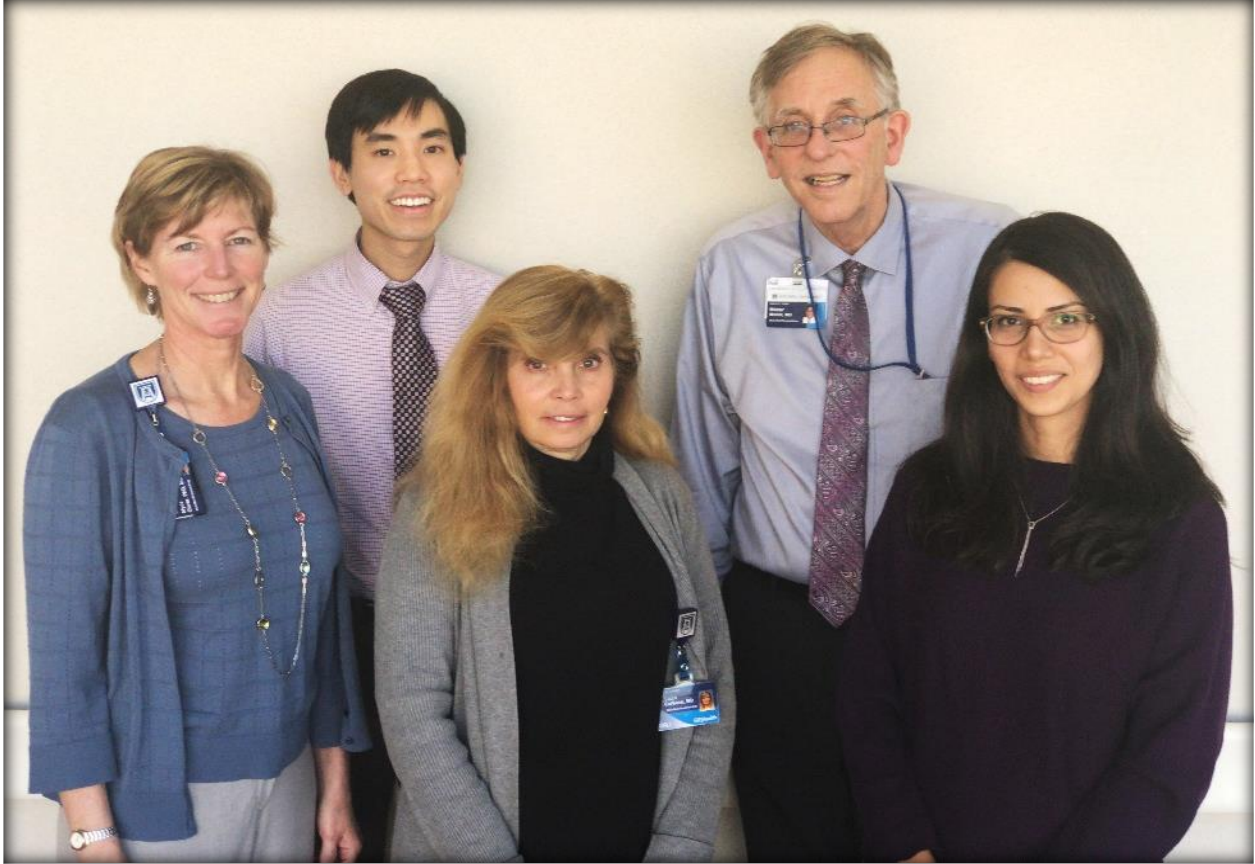
Both Dr. Caralee Forseen and Dr. Thomas Dillard are actively involved in various leadership roles, locally and nationally. Dr. Forseen is affiliated with the Life Link of Georgia, Professional Development, and Clinical Practice Committee. She is a member on the Cystic Fibrosis Foundation Therapeutics (CFFT) Data/Safety Monitoring Board and Cystic Fibrosis Center Accreditation Committee. She is also responsible for the accreditation of the Cystic Fibrosis Centers in the United States. Dr. Dillard is part of the Southeast Thoracic Association Program, Tri-State Conference of Consecutive Cases, and Abstract Reviewer at the Annual Meetings of the Associated Professional Sleep Societies and Annals of Internal Medicine.

EDUCATION

Eleven full time clinical faculty members are board certified in both Pulmonary and/or Critical Care Medicine. Pulmonary faculty and fellows play an integral role in the Department of Medicine teaching program, including organizing the summer acute medicine conference series, and supervising and teaching residents and students during ICU and consultation rotations. Drs. John Brice, James Smith and Joseph John provide clinical oversight and educational support for pulmonary fellows, medicine residents and students at the Augusta VA. The Pulmonary faculty are active in medical education programs outside the University and in the presentation of papers at national meetings.

The Pulmonary and Critical Care Fellowship at the Augusta University is a 3-year training program granting Board eligibility in both pulmonary and critical care medicine. Each year two to four fellows join our program for a total of 9 fellows in training at any given time.

Fellow rotations are generally one month in duration and include clinical and elective rotations. The clinical rotations are divided between the Augusta University 4-ICU, VA Medical/Surgical ICU, Augusta University Pulmonary consult service, and VA Pulmonary consults service. Fellows typically have 12 months for research and elective training and 24 months of clinical training divided between MCG and the VAMC. Fellows rotate on the trauma service at Augusta University or the Joseph M. Still burn center one month during their fellowship.



Left to Right: Alyce Oliver, MD, Brian Le, MD, Laura Carbone, MD, Walter Moore, MD, Nour Zleik, MD

RESEARCH

The Research Program focuses on the epidemiology of osteoporosis using large databases including CHS, the WHI, the USRDS and the Spinal Cord Injuries and Disorders (SCD/SCIDOS) datasets. A pharmaceutical study of an investigational new therapy for systemic sclerosis is ongoing. Current areas of research interest also include:

- Age-related and postmenopausal osteoporosis
- Osteoporosis in Spinal Cord Injury and Disorders
- The Interrelationship between Osteoporosis and Cardiovascular Disease
- Health care disparities in Rheumatic Diseases

The Department of Defense (DOD), the Rheumatology Research Foundation and Veterans Affairs (VA) Merit Review Funding currently support the division's research work. This includes major extramural grants received from management of osteoporosis in veterans and best practices for management of fractures in SCI.

CLINICAL/COMMUNITY SERVICE

The physicians have a broad range of clinical experience with special focus in areas of rheumatoid arthritis, systemic sclerosis, crystalline disorders and osteoporosis.

DXA testing for osteoporosis is available. Musculoskeletal ultrasound is available as needed for arthrocentesis and a state of the art polarizing microscope for crystalline examination of synovial fluid is available on site.

The Division leads a multispecialty lupus group, including Rheumatologists, Dermatologists and Nephrologist, that focuses on difficult to treat patients and emerging literature relevant to systemic lupus erythematosus.

Our physicians participate in volunteer community services including Clinica Latina, The Annual Lupus Symposium and the American Heart Association Walk in Augusta.

Rheumatology's clinical activity last year have flourished throughout the years. Rotations last fiscal year include 71 ambulatory students, 3 students, and 38 residents.

EDUCATION

ACGME accreditation for a two-year fellowship in rheumatology prepares physicians for either academic or clinical careers. The first year of the fellowship is spent mainly in the clinical setting with responsibilities divided among outpatient clinical services and inpatient consults. This includes two continuity clinics. In addition to continued clinical responsibilities, the second year affords an opportunity to pursue a more individually tailored study or clinical experience. The fellowship has been designed to ensure a balance of service and education with emphasis towards education.

Fellows are exposed to a range of the most common to the most complex rheumatologic disease in both outpatient and inpatient settings. Clinics and inpatient consults are completed at Augusta University and at the Charlie Norwood VA Medical Center. Fellows participate in multi-specialty clinics, caring and treating those with either systemic lupus or uveitis. The focus is on providing the resources and educational opportunities to train the next generation of physician scientists in rheumatology.

To this end, first year fellow, Dr. Brian Le, is planning a career in academic medicine. He is currently actively engaged in a number of research activities and pursuing a Masters of Public Health at MCG.

INTERNAL MEDICINE CLERKSHIPS



Thaddeus Carson, MD
Director of
Clerkship



Shilpa Brown, MD
Director of Ambulatory
Medicine 4th Year



Matthew Diamond, DO
Associate Director



Namita Mohanty, MD
Associate Director
Ambulatory Clerkship

The Department of Internal Medicine offers two mandatory Clerkships for our students at the Medical College of Georgia as well as a fourth year Sub-Internship rotation, Medical Intensive Care rotation, and numerous elective experiences. The third year core Internal Medicine Clerkship comprises an eight week inpatient experience divided into two four week blocks. Of these four week blocks, one must be done on a general medicine service and the other may be on a sub-specialty service. The second clerkship is an Ambulatory Internal Medicine experience in the fourth year of medical school where students experience the outpatient side of Internal Medicine. These clerkships take place Augusta as well as through our regional campuses throughout Georgia. The site directors are indicated below. Through these experiences students will acquire the clinical skills, knowledge and professional attitudes and behaviors necessary to evaluate, diagnose and treat adult patients with a wide variety of illnesses. Regular teleconferences with the sites during the mandatory Clerkship provides consistent content for the learning experience. Overall, students rate the experience positive and many DOM faculty as outstanding educators.

SITE CLERKSHIP LEADERSHIPS



Molly Bond, MD
Northeast Director



Billy Chacko, MD
Northwest Director



Stephen Chitty, MD
Southeast Director



Kathy Hudson, MD
Southwest Director



Chinyelu Ofodile, DO
Southwest Director

MEDICAL STUDENTS DECLARING IM

MCG

Abbasi, Rahat
Brown, Matthew
Carmona, Stefania
Chae, Jung-Hoon
Chandra, Daniel
Cotten, Lucia
Crowe, Jonathan
Davis, Hank
Hardgrove, Daniel
Ishii, Haruki
Joseph, Joel
Khasnavis, Tanya
Lu, Liang
Manning, Evan
Mcphail, James
Paletta, Nina
Patel, Sagar
Peng, Yiran (Emily)
Plumlee, Katherine
Popoola, Orishebawo

Scott, Stephen
Stone, David
Sundararaghavan, Anirudh
Sweetnam, John-Michael
Townsend, Lisa
Wang, Alexandre
Waqar, Mohammed
Welsh, Travis
White, Bradley

ATHENS

Belk, Justin
Burch, Joseph
Johnson, Dane
Kerkhoff, Lou
Kumar, Arjun
Lee, Kevin
Mullin, Matt
Parke, Bradley
Seawright, Jonathon
Thomas, Will

INTERNAL MEDICINE RESIDENCY PROGRAM



Top Row, Left to Right: Evan Fountain, MD; Ryan Keen, MD; Trey Forehand; **Second Row, Left to Right:** Thad Carson, MD; Ajay Pillai, MD; James Eames, MD; Curran Dalal, MD; Zander Daniel, MD; Jason Wen, MD; Chris Ellington, MD; **Third Row, Left to Right:** Matthew Alberti, DO; Robert Win, MD; Alex Herzog, MD; Garrett Collins, MD; Anas Raed, MD; Patricia Morissette, MD; Abd Bouzid, MD; **Fourth Row, Left to Right:** Thomas Whitton, MD; Chela Brown, MD; Marc Ciesco, DO; Lane Perry, MD; Amanda Alexander, DO; Lee Merchen, MD; **Fifth Row, Left to Right:** Liz Zhang-Velten, MD; Phong Nguyen, DO; David Janeira, MD; Jonathan Hanson, DO; James Yoo, MD; Paul Weaver, DO; Zunair Afghani, DO; **Sixth Row, Left to Right:** Katie Herring, MD; Cynthia Anunobi, MD; Kristen Brown, MD; James Petit, MD; Ashley Filo, MD; Renee Peterkin, MD; Chantelle Chand, MD; Abigail Cline, MD; Ada Gotshall, MD; Stan Hoy, MD; Bethany Birkelo, DO; Charles Teixeira, DO; Greg Kramer, MD

RESEARCH

The Clinician Scientist five-year pathway, now in its 8th year, has matured into a robust, established program. Created and directed by Drs. David Stepp and Lee Merchen, current residents have had tremendous publication success, and have had successful fellowship matches in cardiology and gastroenterology. Dr. Larion recently gave an outstanding Grand Rounds on his research on NOX-1 and liver disease. The research residents have benefited from mentors across our broad university research offerings, including the Vascular Biology Center, Rheumatology, Cardiology and the Georgia Prevention Institute. This program embodies the rewarding synergy between clinicians and researchers. Our traditional 3 year pathway residents are also active. They link with internists and sub specialists, they have presented at regional and national meetings, and this has resulted in publications. More recently they have been involved in Quality Research, and their findings have had a positive impact on the Health System.

CLINICAL/COMMUNITY SERVICE

Internal Medicine residents have provide extraordinary care in the local community. They helped with care of hurricane evacuees, volunteered with caring for migrant farmers

(Costa Layman Nursery) and volunteered health district and Clinica Latina. They volunteered and stepped up to support the historical flu season, covering nights, weekends and extra patients for a more than month of much needed extra help.

EDUCATION

The residency launched two innovative educational programs this year. The Simulation Center and Internal Medicine curriculum, led by chief resident Dr. Afghani, has provided effective learning opportunities for all medicine trainees in both procedural and cognitive skills. The state of the art 'Sim' center with IM residents has been a rewarding collaboration with the SOM. IM residents were the 1st GME program to engage in a year long curriculum with the 'Sim' center and the launch led to a variety of learning scenarios include running codes, managing airways, and cognitive skills focused on communication.

Another innovative educational program involved introduction to clinical ultrasound. The ultrasound curriculum for IM is a hallmark of collaboration with the Ultrasound Center. Led by Dr. Matt Lyons, and innovative use of technology at the bedside, Residents have opportunity to scan at the bedside, improved procedural training and improved fluency with this clinical tool. New ultrasound machines have been placed in the hospital for educational purposes, with a plan for further expansion of both the curriculum, faculty training, and access to technology in the coming year.

FELLOWSHIP MATCH

100% of residents matched in the following specialties: Hematology/Oncology, Cardiology, Rheumatology, Pulmonary Medicine and Critical Care, Nephrology– most notably at Augusta University, Baylor, UT San Antonio, Northwestern, LSU, MUSC and VCU. 54% of our graduates are pursuing fellowships this year. There are four rising chief medical residents and four residents pursuing hospitalist medicine positions.



TRANSLATIONAL RESEARCH PROGRAM



Left to Right: TRP Students & Members: A. Sulimirski, S. Leitheiser, E. Weathers, Stanley Nahman, MD, Stephanie Baer, MD, J. Ahn, & J. Chae. **Not Pictured:** Group Members Brandi McCorkle, Wendy Bollag, PhD, Janis Cho, MD, Chris Colombo, MD, Rhonda Colombo, MD, Matthew Diamond, DO, Ashely Filo, MD, Varghese George, PhD, A.J. Kleinheksel, PhD, Lee Merchen, PhD, Kathy Miles, Azeem Mohammed, MD, Mark Smith, MD, Frances Yang, PhD, Lufei Young, PhD

RESEARCH

Since its inception, the TRP has conducted 58 studios, generated 55 publications (49 published abstracts, 6 manuscripts), and captured \$148,600 in revenues. The second cycle of the Provost's SRP (for the entire University and led by the TRP) was very successful with 15 projects reviewed and funded. The TRP program and/or TRP working group members mentored 51 total projects. Jung Chae (class of 2018) was the first TRP student researcher, and took academic year 2016-17 to work within the program. She presented her work at the Southern AFMR (oral) and ASN (poster) meetings in 2017.

The primary administrative body for the program is the TRP working group consists of 14 to 18 members from across the institution and community. The group meets monthly, and oversees all facets of the research, educational, and service missions. Brandi McCorkle continues to assist with administrative activities, and organize all TRP functions.

CLINICAL/COMMUNITY SERVICE

Now in its fourth year, the Translational Research Program (TRP) has continued to meet its mission of enhancing research for the Department of Medicine and the greater University community. The TRP research studio program continues to thrive with particularly strong responses from the undergraduate campus in the Provost's Student Research Program (SRP). The TRP has continued to promote the Medical Scholars' Program (MSP) for the Department, generate publications and revenues, and offer the provision of several educational and service-oriented activities.

EDUCATION

Dr. Tonette Krousel-Wood, Associate Provost at Tulane was the keynote speaker for the MSP annual presentation day, and Dr. Jeffery Lackner, Professor of Medicine, University of Buffalo, visited as a TRP-sponsored visiting professor. These investigators were role models for our students and trainees.

The TRP has assisted in 4 cycles of a resident research competition for the Richmond County Medical Society (60 abstracts), 3 cycles sponsoring students from the Medical Scholars Program (N = 62), and 27 monthly Departmental research conferences (mean attendance = 60). Finally, the TRP has assisted the Georgia ACP in a 3rd cycle of a call for abstracts for their annual meeting.

Table 2. Studio presentations from 2017			
Student	Mentor	Project Title	College
Shepherd K	Kao S	Determination of Dexmedetomidine in OMFS Anesthesia Regimen	DCG
Aniezue L	Kuo N-C	Why students with specific learning disabilities fail standardized assessments...	Education
Blume G	Holland M	Ketosis and Post-Fatigue Accuracy	Education
Woods A	Pettit S	Teacher Candidates' Perceptions of Professional Development School Experiences	Education
Eckert B	Klug C	The effect of neighborhood socioeconomic status on the sodium contest ...in chain restaurants	Graduate School
Lessman M	Behr A	Circumcision surgical simulation model	Graduate School
Reid J	Rausch M	Review ACES mentorship model	Graduate School
Leibou S*	Chadli A	Hsp 90 inhibitors; anti-cancer drug development	MCG
Cain L*	S-Mumford J	Therapist personality in outcomes follow up	Science and Math
Honkanadavar H	Panda S	Synthesis of Hybrid nsAids	Science and Math
Jhanji N	Sabbatini M	Alcohol-induced histone modifications as a trigger of pancreatic tumorigenesis	Science and Math
Lawrence M	Guerro J	New Developments in Tissue-Specific Drug Targeting	Science and Math
Littlefield W	Panda S	Design and Synthesis of Potential Antimalarial Agents	Science and Math
O-Semore K	Wiley F	Sublethal effects and bioaccumulation of ethynyl-estradiol in <i>Lumbriculus variegatus</i>	Science and Math
Osby A	De Silva T	Self-organization of lipid mixtures in cell membranes: A thermodynamic approach	Science and Math

* Returning student

Table 4. Manuscripts (all years)	
Count	Citation
1.	Bethel M, Yang FM, Li S, Nahman NS, Oliver AM, Machua W, Kheda M, Carbone LD: Hydroxycycloquine in systemic lupus erythematosus patients with end stage renal disease. <i>J Investig Med</i> . 64:908-10, 2016. PMID 26911274
2.	Colombo CJ, Baer S, Blake L, Bollag WB, Colombo R, Diamond MJ, George V, Huber L, Merchen L, Miles K, Yang F, Nahman Jr NS: A departmental initiative for clinical and translational research. <i>J Investig Med</i> . 64:1001-1005, 2016. PMID: 27073213
3.	Tirath A, Tadros S, Coffin SL, Kintziger K, Waller JL, Baer SL, Colombo RE, Huber LY, Kheda MF, Nahman Jr NS: <i>Clostridium Difficile</i> infection in dialysis patients. <i>J Investig Med</i> . 65:353-357, 2017. PMID: 27737913
4.	Paudyal S, Yang FM, Rice C, Chen C, Skelton M, Bethel M, Brown S, Nahman Jr NS, Carbone L: End stage renal disease in patients with rheumatoid arthritis. <i>Sem in Rheum</i> , in press
5.	Le B, Waller JL, Radhakrishnan R, Oh SJ, Kheda MF, Nahman NS Jr, Carbone L: Osteoporotic fractures in patients with systemic lupus erythematosus and end stage renal disease. <i>Lupus</i> . 2017 Jan 1:961203317709953. doi: 10.1177/0961203317709953. [Epub ahead of print] PMID: 28530467
6.	Ahn J, Waller JL, Baer SL, Colombo RE, Kheda MF, Nahman NS Jr, Turrentine JE: Mortality risk after herpes zoster infection in end-stage renal disease patients. For resubmission

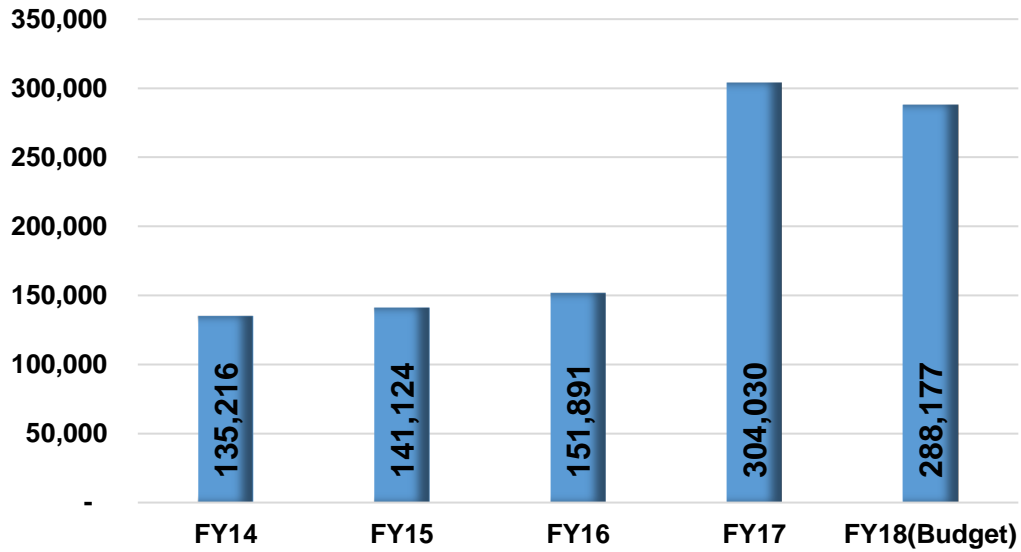
VETERANS ADMINISTRATION – CHARLIE NORWOOD MEDICAL CENTER



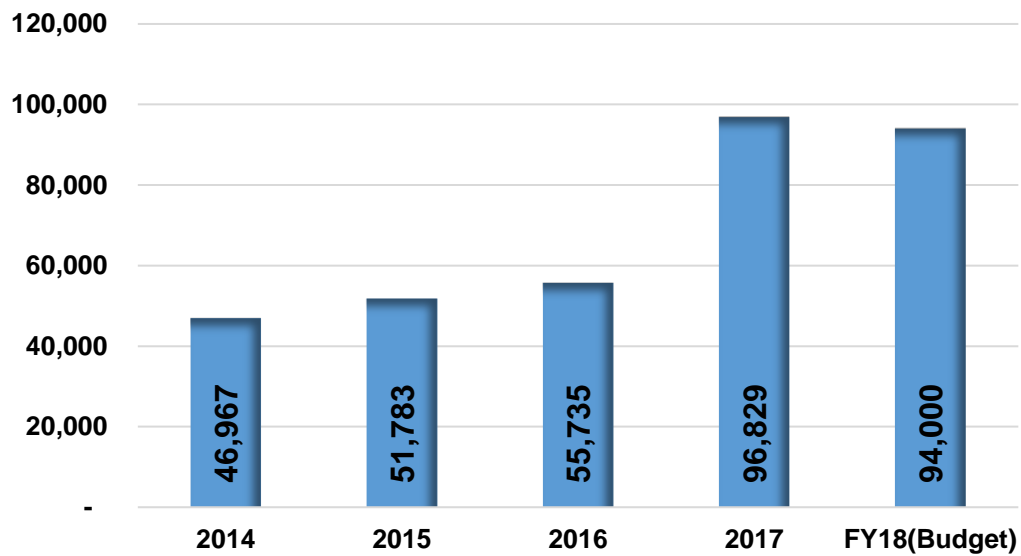
The Charlie Norwood Veterans Administration Hospital plays an important role in our educational, clinical and research missions. The Department of Medicine faculty, staff and trainees are privileged to serve America's Veterans. Our educational programs include inpatient and outpatient experiences for our trainees and students. These activities are directed by capable administration and faculty listed below and include fully time and part-time AU faculty. Listed below are VA faculty that participate in our clinical educational, and research missions. Their participation is critical to our mission.

Adasofunjo, Mathew	John, Joseph	Smith, Craig
Afghani, Zunair	Johnson, Adeline	Smith, James
Baer, Stephanie	Kattine, Tara	Smith, Stanley
Bates, Deborah	Lavieri-Raynold, Connie	Soriano, Hsaio
Brice, John	Little, Leonard	Spearman, D. Ronald
Bridge, Glenn	Lockhart, Terri	Spencer, Michael A.
Calkins, Joe	Mandawat, Mahendra	Spurr, Charles
Cavalieri, Stuart	McLeod, Kyle	Sridharan, Vidya C.
Cheng, Jianhua	McNear, Jennifer	Talebi, Farhad
Collier, Robert	Montalvo, Luis, F.	Thomas, Marykutty
Dainer, Paul	Nixon, George	Tiernan, Steven D.
Desai, Jay	Prasatik, Erik	Tyson, Tyra
Green, Charles G.	Priebe, Michael	Ujgin, Ruj
Griffin, Joseph	Scharff, Lois	
Hartney, Thomas J.	Shah, Dinesh	

Department of Medicine - RVU Summary

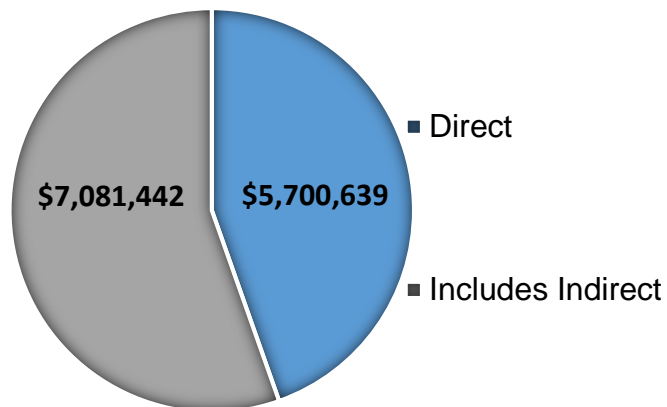


Medicine Practice Volume Trends



Grants - Current Grant Dollars

44 Grant Submissions for 2017



DOM HIGHLIGHTS

MCG EXEMPLARY TEACHING AWARDS 2017



Zunair Afghani
Internal Medicine



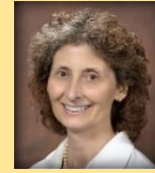
Laura Carbone
Rheumatology



Edward Chin
Endocrinology



Rhonda Colombo
Infectious Dis.



Loretta Davis
Dermatology



Thomas Dobosz
Internal Medicine



Pamela Fall
Nephrology



John Fisher
Infectious Dis.



Jaspal Gujral
Internal Medicine



Sean Javaheri
Cardiology



Lee Ann Merchen
Internal Medicine



Namita Mohanty
Internal Medicine



Walter Moore
Rheumatology



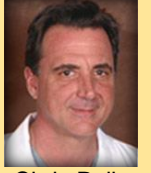
Anthony Mulloy
Endocrinology



Cheryl Newman
Infectious Dis.



Jeremy Pantin
Hem/Onc.



Chris Pallas
Cardiology



Jigarkumar Parikh
Hem/Onc.



William Salazar
Internal Medicine



Subbaramiah Sridhar
Gastroenterology



Pamela Tipler
Internal Medicine



Jose Vazquez
Infectious Dis.

PROMOTION & TENURE AWARD

Professor



Adam Berman
Cardiology



Deepak Kapoor
Cardiology



Matthew Diamond
Nephrology



Vishal Arora
Cardiology

Associate Professor



Caralee Forseen
Pulmonary



Jeremy Pantin
Hem/Onc.



Joyce Gonzales
Pulmonary

NEW FACULTY



Anand P. Jillella
Hem/Onc.



Andrew Chao
Infectious Dis.



Azeem Mohammed
Nephrology



Christy Rainey
Dermatology



Steven Ellison
Gastroenterology



Wanda Rosaly
Internal Medicine



Varsha Taskar
Pulmonary

GRAND ROUNDS PRESENTATIONS

FACULTY

- 01/10 - Pamela Tipler, MD, General Internal Medicine
- Medical Simulation in Medical Education,
- 01/17 - Sean Javaheri, MD, Cardiology
- Preoperative Cardiac Assessment Prior to Non-Cardiac Surgery
- 02/16 - Gyanendra Sharma, MD, Cardiology
- Aortic Valve Stenosis: Diagnostic Challenges & New Directions in the Mgmt.
- 03/07 - Jigarkumar Parikh, MD, Hematology/Oncology
- Updates on Management of Metastatic Melanoma
- 03/21 - Pascha Schafer, MD, Cardiology
- Value Based Care: The Times They Are A-Changin'
- 03/28 - David Fallaw, MD, General Internal Medicine
- Value Based Care Transformation
- 05/30 - Asha Nayak-Kapoor, MD, Hematology/Oncology
- Role of Genetic Testing in Colorectal Cancer
- 09/19 - Michael Madaio, MD, Nephrology and Dept. of Medicine Chairman
- Lupus Nephritis Update
 - State of the Department of Medicine Address

VISITING PROFESSORS

- 01/24 - Dennis Ledford, MD, Internal Medicine, University of South Florida
- Anaphylaxis, Treatment and Differential Diagnosis
- 02/03 - Andrew Stewart, MD, Endocrinology, Icahn School of Medicine at Mount Sinai
- Sydenstricker Lecture- Recent Advances in Human Pancreatic Beta Cell Regeneration for Diabetes
- 02/07 - Timothy Whelan, MD, Pulmonary, Medical University of South Carolina
- Lung Transplantation: Who, What, Where and When
- 02/21 - Bryan Wells, MD, Cardiology, Emory University School of Medicine
- Fibromuscular Dysplasia
- 04/11 - Michael Bronze, MD, Infectious Disease, Oklahoma University Medical Center
- Hepatitis C and Pathogenesis of HCC: Update
- 04/18 - William Chey, MD, Gastroenterology, University of Michigan
- Managing H. Pylori Infection in 2017: The American College of Gastroenterology Clinical Guidelines
- 04/25 - Harold Szerlip, MD, Nephrology, Baylor University Medical Center at Dallas
- Acute Kidney Injury: Are We In A Paradigm Shift Away From Creatinine?
- 05/02 - Nehal Mehta, MD, Cardiology, National Institutes of Health
- Translational Studies of Psoriasis and Cardiometabolic Diseases
- 05/09 - Sarah Morgan, MD, Immunology and Rheumatology, University of Alabama
- Garbage In, Garbage Out: Modern DXA Scanning Concerns
- 05/23 - Maria Abreu, MD, Gastroenterology and Internal Medicine, University of Miami
- What Causes Inflammatory Bowel Disease?
- 09/25 - M. Tonette Krousel-Wood, MD, Medicine and Epidemiology, Tulane University
- Medical Scholars Research Day: Medicine, Miracles, and the Role of the Physician Scientist
- 10/24 - Robert Roberts, MD, Cardiology, University of Arizona College of Medicine - Phoenix
- Genetic Prediction of Coronary Artery Disease
- 11/14 - Gottumukkala Raju, MD, Gastroenterology, Hepatology & Nutrition, MD Anderson Cancer Center
- Colon Cancer Screening - Role of Quality of Colonoscopy,
- 11/28 - Rabih Bechara, MD, Pulmonary and Critical Care, Southeastern Regional Medical Center
- State of the Art in Interventional Pulmonology
- 12/05 - L. Joseph Wheat, MD, Infectious Disease, MiraVista Diagnostics
- Update on Diagnosis and Management of Histoplasmosis
- 12/12 - Kenneth Wood, DO, Critical Care, University of Maryland
- Sepsis, An Evidence Based Approach to Improve Outcomes
- 12/19 - Jeffrey Lackner, PsyD, Behavioral Medicine, University of Buffalo
- Cognitive Behavior Therapy for IBS: Does it Work, For Whom and At What Cost?

SELECTED PUBLICATIONS / GRANTS / INVITED LECTURES / POSITIONS

CARDIOLOGY PUBLICATIONS

Berman A, Rivner H, Chalkley R, Heboyan V. A comparative analysis of clinical outcomes and disposable costs of different catheter ablation methods for the treatment of atrioventricular nodal reentrant tachycardia. *ClinicoEconomics and Outcomes Research*. 2017, 9: 677-683. PMID: 29138585

Berman A, Bianchi-Smiraglia A, Bagati A, Fink EE, et al. Microphthalmia-Associated Transcription Factor Suppresses Invasion by Reducing Intracellular GTP Pools. *Oncogene*. 2017, 36(1):84-96. PMID: 27181209

Berman A, Taylor AJ, Chen Y, Fok M, Nilsson K, Tse ZTH. Cardiovascular catheter with an expandable origami structure. *Journal of Med. Devices, Transactions of ASME*. 2017, 11(3). DOI: 10.1115/1.4036581

Belin De Chantemèle EJ, Faulkner JL. Sex Differences in Mechanisms of Hypertension Associated with Obesity. *Hypertension*. 2017, 71(1): 15-21. PMID: 29133358

Belin De Chantemèle EJ, Thompson JA, Larion S, Mintz JD, Fulton DJ, Stepp DW. Genetic Deletion of NADPH Oxidase 1 Rescues Microvascular Function in Mice with Metabolic Disease. *Circulation research*. 2017, 121(5): 502-511. PMID: 28684629

Kapoor D, Nagabandi A, Ratanapo S, Morgan LG. Use of Vascade Vascular Closure System for Venous Hemostasis. *Vascular Disease Management*. 2017, 14(8): 171-173.

Misenheimer JA, Arora S, Ramaraj R. Transcatheter Aortic Valve Replacement: Comprehensive Review and Present Status. *Texas Heart Institute Journal*. 2017, 44(1): 29–38. PMID: 28265210

Misenheimer JA, Arora S, Jones W, Bahekar A, Caughey M, Ramm CJ, et al. Transcatheter versus surgical aortic valve replacement in intermediate risk patients: a meta-analysis. *Cardiovascular Diagnosis and Therapy*. 2017, 6(3): 241–249. PMID: 27280087

Sharma GK, Whiteside H, Jyothidasan A, et al. Evaluation of Routine Screening Practices for Cardiac Involvement in Patients with Biopsy-Proven Extracardiac Sarcoidosis. *Heart Circ*. 2017, 1:008.

Weintraub NL, Bayoumi AS, Teoh JP, Aonuma T, Yuan Z, Ruan X, Tang Y, et al. MicroRNA-532 protects the heart in acute myocardial infarction, and represses prss23, a positive regulator of endothelial-to-mesenchymal transition. *Cardiovascular Research*. 2017, 113(13): 1603-1614. PMID: 29016706

Weintraub NL, Li J, Ma W, Yue G, Tang Y, et al. Cardiac proteasome functional insufficiency plays a pathogenic role in diabetic cardiomyopathy. *Journal of Molecular and Cellular Cardiology*. 2017, 102: 53-60. PMID: 27913284

CARDIOLOGY EXTRAMURAL GRANTS

NIH/NIAMS Innovative Approaches to Treat Duchenne Muscular Dystrophy Using iPSC-Derived Muscle Progenitors. Weintraub N - CO-PI, Tang S - PI

NIH/NHLBI Notch1/miR-322 Axis in Stem Cell Mediated Vascular Repair. Weintraub N – Co-PI, Tang S -PI

NIH/NHLBI Epigenetic Regulation of HDAC9 in Obesity and Atherosclerosis. Weintraub N - PI

NIH/NHLBI Perivascular Adipose Tissue and Vascular Remodeling. Weintraub N - PI

DERMATOLOGY PUBLICATIONS

Davis LS, Browning RJ, Sanchez AT, Mullins S, Sheehan DJ. Blepharochalasis: something to cry about. *Journal Cutan Pathol.* 2017, 44: 279-282. PMID: 27718529

Davis LS, Grunnet KM, Powell KS, Miller IA. Autoimmune progesterone dermatitis manifesting as mucosal erythema multiforme in the setting of HIV infection. *JAAD Case Reports.* 2017;3(1):22-24. PMID: 28050592

Davis LS, Heard LK, Richardson VN, Lewis CM. A case of autoinflammatory skin and bone disease flared by a change in osteoporosis management. *JAAD Case Reports.* 2017, 3(2): 103-105. PMID: 28337469

Davis LS, Kim AS, Greyling LA. Vulvar Varicosities: A Review. *Dermatologic Surgery.* 2017, 43(3): 351-356. PMID: 28005626

Davis LS, Richardson V, Agidi AT, Eaddy ER. Ten pearls every dermatologist should know about the appropriate use of relaxers. *J Cosmetic Dermatology.* 2017, 16: 9-11. PMID: 27472987

Davis LS, Wilson NK, Miller IA. Use of a cotton-tipped applicator for superior clinical diagnosis and biopsy of suspected basal cell carcinoma of the nasal ala. *Journal of the American Academy of Dermatology.* 2017, 76(1): e11-e12. PMID: 27986150

DERMATOLOGY NATIONAL/INTERNATIONAL INVITED LECTURES/POSITIONS

Davis LS - 41st Annual Southeastern Consortium for Dermatology, Chair. Medical College of Georgia

Davis LS - 62nd Annual Meeting of the Georgia Society of Dermatology and Dermatologic Surgery Meeting, Guest Speaker. The Cloister, Sea Island, Georgia

Thakore M - 40th Annual Pediatric Update, guest speaker. Kiawah Island, South Carolina

ENDOCRINOLOGY PUBLICATIONS

Isales CM, Davis C, Dukes A, Drewry M, Helwa I, et al. MicroRNA-183-5p Increases with Age in Bone-Derived Extracellular Vesicles, Suppresses Bone Marrow Stromal (Stem) Cell Proliferation, and Induces Stem Cell Senescence. *Tissue Engineering - Part A.* 2017, 23(21-22): 1231-1240. PMID: 28363268

Isales CM, Kolhe R, Hunter M, Liu S, et al. Gender-specific differential expression of exosomal miRNA in synovial fluid of patients with osteoarthritis. *Scientific Reports.* 2017, 7(1): 2029. PMID: 28515465

Isales CM, Yang N, Baban B, Shi XM. Role of glucocorticoid-induced leucine zipper (GILZ) in inflammatory bone loss. *PLoS ONE.* 2017, 12(8):0181133. PMID: 28771604

Isales CM, Su Y, Shen X, Chen J, Zhao J, Shi XM. Differentially expressed genes in PPAR γ -deficient MSCs. *Molecular and Cellular Endocrinology.* 2017. PMID: 28774780

Isales CM, Ramsey W. Intestinal incretins and the regulation of bone physiology. *Advances in Experimental Medicine and Biology.* 2017, 1033: 13-33. PMID: 29101649

Terris DJ, Cabanillas M, Sabra M. Information for Clinicians: Approach to the patient with progressive radioactive iodine refractory thyroid cancer- When to use systemic therapy. *Thyroid.* 2017. PMID: 28635520

ENDOCRINOLOGY EXTRAMURAL GRANTS

Testosterone Replacement Therapy for Assessment of Long-Term Vascular Events and Efficacy Response in Hypogonadal Men (TRAVERSE) Study. Chin E - PI. (Charlie Norwood VA Medical Center)

NIH Age-induced Impairment of Nutrient Signaling Results in Bone Loss. Isales C – PI

ENDOCRINOLOGY EXTRAMURAL AWARDS

Isales CM - Honorary Int. Chair Professor, National Taipei University of Technology, Taipei, Taiwan

Stachura M - Honorary Int. Chair Professor, National Taipei University of Technology, Taipei, Taiwan

ENDOCRINOLOGY NATIONAL/INTERNATIONAL INVITED LECTURES/POSITIONS

Chin E - Vice President, American College of Physicians, Georgia Chapter; Member, American Thyroid Association, Finance Committee; Member, American Association of Clinical Endocrinologists, Primary Care Physician Education Committee

Harper R - Board of Directors, American Association of Clinical Endocrinologists, Georgia Chapter

Isales C - NIH, NCI U54, Program Steering Committee Chairman: Minority Institute/Cancer Center Partnership between Moffitt Cancer Center and the Ponce School of Medicine; NIH GEMSSTAR Study Section, NIA Special Study Section; NIA Special Study Section ZAG1 ZIJ-U (M2) – Chair; VA Merit Review Study Section Endo B Chair; PLOS One - Academic Editor, J Bone & Mineral – Editorial Board; Invited Speaker NIH-Network of Minority Scientists, Washington, DC, “Careers in Endocrinology”.

GASTROENTEROLOGY PUBLICATIONS

Rao SSC, Cash BD, Pimentel M, Weinstock L, Chang L, Heimanson Z, Lembo A. Repeat treatment with rifaximin improves irritable bowel syndrome-related quality of life: A secondary analysis of a RDBPCT *Therapeutic Adv. Gastroenterology*. 2017, 10(9): 689-699. PMID: 28932270

Rao SSC, Camilleri M, Ford AC, Mawe GM, Dinning PG, Chey WD, et al. Chronic constipation. *Nature Reviews Disease Primers*. 2017, 3: 17095. PMID: 29239347

Sharma A, Rao SSC, Vasant DH, Bhagatwala J, Viswanathan L. Apprenticeship-based training in neurogastroenterology and motility. *Expert Review of Gastroenterology and Hepatology*. 2017, 1-8. PMID: 29140124

Sharma A, Rao SSC. Constipation: Pathophysiology and current therapeutic approaches. *Handbook of Experimental Pharmacology*. 2017, 239. PMID: 28185025

Sridhar S, Islam BN, Sharman SK, Hou Y, Bridges AE, Singh N, et al. Sildenafil suppresses inflammation-driven colorectal cancer in mice. *Cancer Prevention Research*. 2017. 10(7): 377-388. PMID: 28468928

Sridhar S, Rao SSC, Sharman SK, Islam BN, Hou Y, Usry M, Bridges A, et al Sildenafil normalizes bowel transit in preclinical models of constipation. *PLoS ONE*. 2017, 12(4): e0176673. PMID: 28448580

GASTROENTEROLOGY EXTRAMURAL GRANTS

NIH FIT Study - Comparative Effectiveness of Biofeedback, Sacral Nerve Stimulation, & Dextranomer Injection for Treatment of Fecal Incontinence; U-34, 1434DK109191-01 (Multicenter Study with Mayo Clinic, UNC Chapel Hill, University of Minnesota). Rao SSC - PI

NIH Neuromodulation Therapy for Fecal Incontinence, R-21, 5R21DK104127-02. Rao SSC - PI

In-Control Medical Home vs. Office Biofeedback Therapy for Fecal Incontinence. Rao SSC - PI

Forest Laboratories & Ironwood Pharmaceuticals Investigation of Gut-brain interactions and mechanism of action of linaclotide. Rao SSC - PI

Parkinson's Disease Foundation Characterization of Gastrointestinal and Neuromodulation Dysfunction in Parkinson's Disease. Sharma A - PI

Home Versus Office Biofeedback Therapy for Fecal Incontinence. Sharma A - PI

Analysis of GPR109A, GPR109B and SLC6A14 in Patients with Ulcerative Colitis and in Patients with Chronic Abdominal Symptoms and Diarrhea. What is the Role of Smoking? A Single-Blinded, Single-Center Study. Sifuentes H - PI

Phase 3, Randomized, DB, Placebo-controlled, Multicenter Study to Investigate the Efficacy and Safety of Mongersen (GED-0301) for the Treatment of Subjects with Active Crohn's Disease. Sifuentes H - PI

Entyvio (Vedolizumab) long-term safety study: An international observational prospective cohort study comparing vedolizumab to other biologic agents in patients with ulcerative colitis or Crohn's disease. Entyvio PASS Study. Sifuentes H - PI

GENERAL INTERNAL MEDICINE PUBLICATIONS

Brown SB, Nahman NS, Carbone LD, Paudyal S, Yang FM, Rice C, Chen CC, Bethel M, et al. End-stage renal disease in patients with rheumatoid arthritis. *Seminars in Arthritis and Rheumatism*. 2017, 46(4): 418-422. PMID: 27591827

Carson TY, Soliman EZ, Ambrosius WT, Cushman WC, Zhang ZM, Bates JT, et al. Effect of Intensive Blood Pressure Lowering on Left Ventricular Hypertrophy in Patients with Hypertension. *Circulation*. 2017, 136(5): 440-450. PMID: 28512184

Hatzigeorgiou C, Coughlin SS, Carbone LD, Heboyan V, Williams LB, Rangachari P, De Leo G. Use of My HealthVet patient web portal among veterans seen for diabetes mellitus at a medical center in the southeastern United States. *Mhealth*. 2017, 3: 50. PMID: 29354642

Hatzigeorgiou C, Coughlin SS, Anglin J, Xie D, et al. Healthy lifestyle intervention for adult clinic patients with type 2 diabetes mellitus. *Diabetes Management*. 2017, 7(2): 197-204. PMID: 28794802

Hatzigeorgiou C, Coughlin SS, Heboyan V, Williams LB. Use of a web portal among clinic patients seen for type 2 diabetes mellitus. *J Hosp Manag Health Policy*. 2017, 2(1). PMID: 29377041

Hatzigeorgiou C, Coughlin SS, Williams LB. A systematic review of studies of web portals for patients with diabetes mellitus. *MHealth*. 2017, 3: 23. PMID: 28736732

GENERAL INTERNAL MEDICINE EXTRAMURAL GRANTS

Georgia SBIRT Initiative Grant. Brown S - PI

SAMSHA (Substance Abuse and Mental Health Services Administration). Brown S - PI

GENERAL INTERNAL MEDICINE EXTRAMURAL AWARDS

Brown S - Distinguished Faculty Award for Clinical Science Teaching/Faculty Senate

Salazar W - Recipient of the National W. Lester Henry Award for Diversity (ACP)

Spearman-McCarthy E - Gold Humanism in Medicine Honor Society Inductee,- MCG Faculty Senate Patient Care Award, AU/MCG Department of Psychiatry Educator of the Year Award

Tipler P - American College of Physicians Achievers Award

HEMATOLOGY/ONCOLOGY PUBLICATIONS

Bryan LJ, Andrick B, Alwhaibi A, DeRemer DL, Quershi S, Khan R, Somanath PR, Pantin J. Lack of adequate pneumococcal vaccination response in CLL patients receiving ibrutinib. *Br J Haematol.* 2017. PMID: 28737280

Bryan LJ, Ding ZC, Habtetsion T, et al. Adjuvant IL-7 potentiates adoptive T cell therapy by amplifying and sustaining polyfunctional antitumor CD4+ T cells. *Sci Reports.* 2017, 7: 12168. PMID: 28939858

Bryan LJ, Gandhi A, Whiteside H, Ajebo G. When Baking Soda Goes on Shortage. *Annals of Pharmacotherapy.* *Sage Journals.* 2017, 52(3): 297-298. PMID: 29094606

Kutlar A, Ataga KI, Kanter J, Liles D, Cancado R, et al. Crizanlizumab for the prevention of pain crises in sickle cell disease. *New England Journal of Medicine.* 2017, 376(5): 429-439. PMID: 27959701

Kutlar A, Lanaro C, Franco-Penteado CF, et al. A thalidomide-hydroxyurea hybrid increases HbF production in sickle cell mice and reduces the release of proinflammatory cytokines in cultured monocytes. *Experimental Hematology.* 2017. PMID: 29108926

Pantin J, Purev E, Tian X, Cook L, Donohue-Jerussi T, Cho E, et al. Effect of high-dose plerixafor on CD34+ cell mobilization in healthy stem cell donors: results of a randomized crossover trial. *Haematologica.* 2017, 102(3): 600-609. PMID: 27846612

Parikh J, Sodji Q, Klein K, Sravan K. Predictive role of PD-L1 expression in the response of renal Medullary carcinoma to PD-1 inhibition. *J ImmunoTherapy of Cancer.* 2017, 5(1):62. PMID: 28807004

HEMATOLOGY/ONCOLOGY EXTRAMURAL GRANTS

NIH/NHLBI UO1 Implementation of Medical Homes for Evidence Based Care of Adolescents and Adults with Sickle Cell Disease. Gibson R - PI, Kutlar A - CO-PI

ECOG-ACRIN Investigator Initiated Study: A Simplified Patient Care Strategy to Decrease Early Death in Acute Promyelocytic. Jillella A - PI/Study Chair

BMT CTN BMTvs. Standard of Care in Patients with Severe Sickle Cell Disease. Pantin J – PI

NIH/NCI RO1 Chemotherapy-induced MDSCs and antitumor immunity. Zhou G - PI, Bryan L - CO-PI

HEMATOLOGY/ONCOLOGY EXTRAMURAL AWARDS

Jillella A - Recipient 1st Optimistic Oncologist Award Georgia Center for Oncology Research & Education

HEMATOLOGY/ONCOLOGY NATIONAL/INT. INVITED LECTURES/POSITIONS

Jillella A - Board Member, Georgia Center for Oncology Research and Education (Georgia CORE).

Kutlar A - Member, American Society of Hematology Scientific Committee

Kutlar A - Member, American Society of Hematology Scientific Committee on Red Cell Biology

INFECTIOUS DISEASES PUBLICATIONS

Baer SL, Colombo RE, Nahman, NS, Tirath A, Tadros S, Coffin SL, et al. Clostridium difficile infection in dialysis patients. *Journal of Investigative Medicine*. 2017, 65(2): 353-357. PMID: 27737913

Chao AW, Bhatti M, DuPont HL, Nataro JP, Carlin LG, Okhuysen PC. Clinical features and molecular epidemiology of diarrheagenic Escherichia coli pathotypes identified by fecal gastrointestinal multiplex nucleic acid amplification in patients with cancer and diarrhea. *Diagnostic Microbiology and Infectious Disease*. 2017, 89(3): 235-240. PMID: 28931467

Thompson SA, Cresci GAM, Mayor PC. Effect of butyrate & Lactobacillus GG on a butyrate receptor & transporter during Campylobacter jejuni exposure. *FEMS Micro Letters*. 2017, 364(6). PMID: 28333199

Haburchak D, Cleary LC, Suraj S, Turrentine JE. The Armadillo Factor: Lepromatous Leprosy. *American Journal of Medicine*. 2017. PMID: 28623172

Vazquez JA, Kullberg BJ, Mootsikapun P, Nucci M, Paiva JA, et al. Efficacy of anidulafungin in 539 patients with invasive candidiasis: a patient-level pooled analysis of six clinical trials. *Journal Antimicrobial Chemotherapy*. 2017, 72(8): 2368-2377. PMID: 28459966

Vazquez JA, Patel S, Spence JW, Veean S, Gonzales-Zamora J. A Complete Guide on Crushing Tablets and/or Opening Capsules of Human Immunodeficiency Virus Medications. *Infectious Diseases in Clinical Practice*. 2017, 25(4): 214-217. DOI: 10.1097/ipc.

INFECTIOUS DISEASES EXTRAMURAL GRANTS

NIH/NIA Coordinated stationary phase activation of *Campylobacter* motility and biofilm formation. Thompson SA - PI

NIH/NIDCR Oral Immune Dysfunction and Oral Infectious Diseases in HIV Infection. Vazquez JA - PI

INFECTIOUS DISEASES AWARDS

Vazquez JA - Distinguished Faculty Award- Clinical Science Research

INFECTIOUS DISEASES NATIONAL/INTERNATIONAL INVITED LECTURE/POSITIONS

Baer S - Community Acquired Pneumonia. Primary Care and Family Medicine Symposium, Augusta U

MacArthur R - HIV Update: Why the HIV Epidemic in North America Will Not End Anytime Soon. Primary Care and Family Medicine Symposium, Augusta U

MacArthur R - Long-Term Crofelemer Use Gives Clinically Relevant Reductions in HIV-Related Diarrhea. Poster presentation, 9th IAS Conference on HIV Science. Paris, France

Thompson S - U.S. Department of Defense Congressionally Directed Medical Research Programs, Stomach Cancer peer review panel, 2017 Peer Reviewed Medical Research Program, Washington, DC

Thompson S - U.S. Department of Veterans Affairs, Fall 2017 BL/CS Infectious Diseases-B (INFB) Merit Review Subcommittee, Washington, DC

NEPHROLOGY PUBLICATIONS

Mulloy LL, Plantinga LC, Pastan SO, Wilk AS, Krisher J, Gibney EM, Patzer RE. Referral for Kidney Transplantation and Indicators of Quality of Dialysis Care: A Cross-sectional Study. *American Journal of Kidney Diseases*. 2017, 69(2): 257-265. PMID: 27881246

Mulloy LL, Zayas CF, Patzer RE, Paul S, Plantinga L, Gander J, Sauls L, Krisher J, et al. A Randomized Trial to Reduce Disparities in Referral for Transplant Evaluation. *Journal of the American Society of Nephrology*. 2017, 28(3): 935-942. PMID: 27738125

Nahman NS, Lassiter R, Wang Y, Fang X, Winn M, Ghaffari A, Ho C-S, Helman S, Jajosky R, Kleven D, Merchen TD. A model of acute renal allograft rejection in outbred Yorkshire piglets. *Transplant Immunol*, 42:40-46, 2017. PMID: 28495618

Nahman NS, Yi M, Zhang L, Liu Y, Livingston MJ, Chen JK, et al. Autophagy is activated to protect against podocyte injury in adriamycin-induced nephropathy. *American Journal of Physiology - Renal Physiology*. 2017, 313(1): 74-84. PMID: 28404589

Paulson WD, Jones SA, Bastola S. Applicability of an entry flow model of the brachial artery for flow models of the hemodialysis fistula. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*. 2017, 231(8): 766-773. PMID: 28466757

Zayas CF, Acevedo R, Norheim G, Cuello M, et al. Outer membrane vesicles extracted from *Neisseria meningitidis* serogroup X for prevention of meningococcal disease in Africa. *Pharmacol Res*. 2017, 121: 194-201. PMID: 28495657

Madaio MP, Salata RA, Geraci MW, Rockey DC, et al. U.S. Physician-Scientist Workforce in the 21st Century: Recommendations to Attract and Sustain the Pipeline. *Acad Med*. 2017. PMID: 28991849

NEPHROLOGY EXTRAMURAL GRANTS

ASCEND-D phase 3 RMCCT, open-label activecontrolled, parallel-group, event-driven study in dialysis subjects with anemia associated with CKD to evaluate the safety and efficacy of daprodustat compared to recombinant human erythropoietin, following a switch from erythropoietin-stimulating agents. Mulloy L - PI

ASCEND-ND phase 3 RMCCT, activecontrolled, parallel-group, multi-center, event-driven study in non-dialysis subjects with anemia associated with CKD to evaluate the safety and efficacy of daprodustat compared to darbepoetin alfa. Mulloy L - PI

Dialysis Clinic Inc; Morbidity & Mortality -ESRD from the USRDS. Nahman, NS - PI

Dialysis Clinic Inc: Role ofIDO in mediating kidney transplant rejection. Nahman NS - PI

Vascular Therapies, Inc. VT304 ACCESS Phase 3, RMCSCBS Evaluating A-V Fistula Outcomes with and without a Perivascular Sirolimus-eluting collagen implant in subjects on Hemodialysis. Paulson W - PI

Risk factors for vascular access failure in hemodialysis patients. Nahman NS – PI

PHS R01DK100564 Novel peptide-based strategy to inhibit deleterious TNF signaling in nephrotoxic nephritis R Lucas and Madaio, MP, Co-PIs

NEPHROLOGY NATIONAL/INTERNATIONAL INVITED LECTURES/POSITIONS

Fall P - Internal Medicine In-training exam writing committee for American College of Physicians

Mulloy LL - Position Awarded on National Leader for ASCEND Study

Nahman NS - In-training exam writing committee for the American Society of Nephrology

Madaio, MP - "Lupus Nephritis" Department of Medicine Grand Rounds Medical University of South Carolina, Charleston, South Carolina, August 17, 2017

Madaio, MP "Human Anti-GBM Disease, Nephrology Grand Rounds Medical University of South Carolina, Charleston, South Carolina, August 17, 2017

PULMONARY PUBLICATIONS

Davis WB, Saha S, Yan W, Washington JM, et al. Genome Sequences of Mycobacteriophages Findley, Hurricane, and TBond007. *Genome Announcements*. 2017, 5(45). PMID: 29122862

Davis WB, Scelsi CL, Khasnavis T, Patel NG, Keshavamurthy JH. Persistent Lobar Atelectasis in a Patient with Chronic Hoarseness. *Am. Coll. Chest Physicians*. 2017, 151(5): 107-113. PMID: 28483133

Gossage JR, Tayebi A, Kim H, et al. Surgical Treatment vs Nonsurgical Treatment for Brain Arteriovenous Malformation in Patients with Hereditary Hemorrhagic Telangiectasia: A Retrospective Multicenter Consortium Study. *Neurosurgery*. 2017, 82(1): 35-47. PMID: 28973426

Gossage JR, Shovlin CL. Pulmonary arteriovenous malformations: Evidence of physician under-education. *ERS Monograph*. 2017, 3(2):00104-2016. PMID: 28421188

Dillard TA, Schroeder C, Simmerman EL, Thomson NB, Hao Z, Sadek RF, et al. Free Lung Cancer Screening Trends Toward a Twofold Increase in Lung Cancer Prevalence in the Underserved Southeastern United States. *South Medical Journal*. 2017, 110(3): 188-194. PMID: 28257543

Forseen C, Tucker MA, Crandall R, Seigler N, et al. A single bout of maximal exercise improves lung function in patients with cystic fibrosis. *Journal of Cystic Fibrosis*. 2017. PMID: 28651845

Gonzales J, Czikora I, Alli AA, Sridhar S, Matthay MA, Lucas R, et al. Epithelial sodium channel- α mediates the protective effect of the TNF-derived TIP peptide in pneumolysin-induced endothelial barrier dysfunction. *Frontiers in Immunology*. 2017, 842. PMID: 28785264

Gonzales J, Umapathy NS, Makala LH, Xu H, Biddinger P, Pace BS. Impaired pulmonary endothelial barrier function in sickle cell mice. *Haematologica*. 2017, 102(1): 26-29. PMID: 27686374

PULMONARY EXTRAMURAL GRANTS

Standardized Treatment of Pulmonary Exacerbations-II (STOP-2) Cystic Fibrosis Foundation Therapeutics, Inc. Site Principal Investigator. Forseen C - PI

A study of the safety and efficacy of bardoxalone methyl in patients with connective tissue disease-associated pulmonary arterial hypertension. Gossage J - PI

Hemoglobinopathy Translational Research Skills Core Program (HTRC) Potential therapeutic role of 2-O, 3-O desulfated heparin in acute chest syndrome NIH T32. Gossage J – PI

PULMONARY EXTRAMURAL AWARDS

Gossage J - Pulmonary Faculty Teacher of the Year

Taskar V - Pilot Fund Award at Tulane University

PULMONARY NATIONAL/INTERNATIONAL INVITED LECTURES/POSITIONS

Forseen C - Cystic Fibrosis Foundation Therapeutics (CFFT) Data and Safety Monitoring Board,

Taskar V - Participant in Learning Leadership Collaborative with Cystic Fibrosis Foundation – Towards Improving Nutritional Outcomes at AU Adult CF Center

RHEUMATOLOGY PUBLICATIONS

Carbone LD, Abderhalden L, Weaver FM, Bethel M, et al. Response to Sabour: Dual-energy X-ray absorptiometry and fracture prediction in patients with spinal cord injuries and disorders: methodological issues. *Osteoporosis International*. 2017, 28(7): 2261-2262. PMID: 28508089

Carbone LD, Bůžková P, Fink HA, Robbins JA, Bethel M, Hamrick MW, Hill WD. Association of Plasma SDF-1 with Bone Mineral Density, Body Composition, and Hip Fractures in Older Adults: The Cardiovascular Health Study. *Calcified Tissue International*. 2017: 1-10. PMID: 28246930

Carbone LD, Foftung RB, Brown DL, Koh WJH, Bartz TM, Civitelli R, et al. Bone mineral density and risk of heart failure in older adults: The cardiovascular health study. *Journal of the American Heart Association*. 2017, 6(3): 004344. PMID: 28288973

Carbone LD, Prentice RL, Huang Y, Neuhauser ML, Manson JE, Thomas F, et al. Associations of Biomarker-Calibrated Sodium and Potassium Intakes with Cardiovascular Disease Risk among Postmenopausal Women. *American Journal of Epidemiology*. 2017, 186(9): 1035-1043. PMID: 28633342

Carbone LD, Tran NQ, Garcia-Rosell M, Pattanaik D, Raza SH. Screening and treatment of latent tuberculosis among patients receiving biologic agents, a national and international survey of rheumatologists. *Journal of Clinical Rheumatology*. 2017, 23(1): 6-11. PMID: 28002150

Moore WJ, Haarlammert M, Birman D, Oberoi A. Inside-Out: Representational Ethics and Diverse Communities. *Am J Community Psychol*. 2017, 60(3-4): 414-423. PMID: 29027672

Moore WJ, Rai G, Brimacombe KR, Mott BT, Urban DJ, Hu X, et al. Discovery and Optimization of Potent, Cell-Active Pyrazole-Based Inhibitors of Lactate Dehydrogenase (LDH). *J Med Chem*. 2017, 60(22): 9184-9204. PMID: 29120638

Oliver AM, Chitnis SS, Sparkes HA, Annibale VT, Pridmore NE, Manners I. Addition of a Cyclophosphine to Nitriles: An Inorganic Click Reaction Featuring Protio, Organo, and Main-Group Catalysis. *Angewandte Chemie International Edition*. 2017, 1:56(32): 9536-9540. PMID: 28605154

RHEUMATOLOGY EXTRAMURAL GRANTS

Management of osteoporosis in Veterans with SCI. Carbone LD - PI

Best Practices for Management of Fractures in SCI. Carbone LD - PI

Resident Research Preceptorship. Rheumatology Research Foundation. Carbone LD - PI

RHEUMATOLOGY NATIONAL/INTERNATIONAL INVITED LECTURES/POSITIONS

Carbone LD - Councilor, Alpha Omega Alpha, Georgia Chapter; HSR&D Grant Review Committee; DSMB, NIA, "ENRGISE-P Study: Enabling Reduction of low-Grade Inflammation in Seniors Pilot Study"; Rheumatology Research Foundation, Grant Review Committee Member

Moore WJ - Primary Care Symposium, Medical College of Georgia, Augusta, GA; Governor, American College of Physicians Board of Governors, Georgia Chapter

Oliver AM - Georgia Physicians Leadership Academy

INTERNAL MEDICINE RESIDENCY PUBLICATIONS

Filo A, Loseva V, Yu J, Sinnott B. Visual Vignette. *Endocrine Practice*. 2017, 24(1): 129. PMID: 29144815

Larion S, Blakeslee-Carter J, Dexter DJ, Mahoney P, Ahanchi SS, Steerman S, Cain B, Panneton JM. A novel iliac morphology score predicts procedural mortality and major vascular complications in transfemoral aortic valve replacement. *Annals of Vascular Surgery*. 2017, 46: 208-217. PMID: 28689947

Larion S, Bradshaw RJ, Ahanchi SS, Powell O, Brandt C, Soult MC, Panneton JM. Left subclavian artery revascularization in zone 2 thoracic endovascular aortic repair is associated with lower stroke risk across all aortic diseases. *Journal Vascular Surgery*. 2017, 65(5): 1270-1279. PMID: 28216353

Larion S, Butcher JT, Fox LG, Mintz JD, Larion S, Fulton DJ, Stepp DW, et al. Effect of myostatin deletion on cardiac and microvascular function. *Physiol Rep*. 2017, 5(23). PMID: 29192067

Larion S, Chen S, Ahanchi SS, Ammar CP, Brandt CT, Panneton JM. A novel anatomic severity grading score for acute Type B aortic dissections and correlation to aortic reinterventions after thoracic endovascular aortic repair. *Journal of Cardiothoracic Surgery*. 2017, 12(39). PMID: 28535766

Larion S, Khurana S. Clinical studies investigating the effect of vitamin E therapy in patients with NASH. *Clinical Liver Disease*. 2017, 11: 16–21. DOI: 10.1002/cld.687

Raed A, Bhagatwala J, Cromer P, Zhu H, Pollock NK, et al. Obesity and related cardiometabolic risk in young US Hispanic farmworkers: A neglected public health problem. *J J Commun Med*. 2017, 3(1): 030.

Raed A, Bhagatwala J, Zhu H, Pollock NK, Parikh SJ, Huang Y, Havens R, Kotak I, Guo DH, Dong Y. Dose responses of vitamin D3 supplementation on arterial stiffness in overweight African Americans with vitamin D deficiency: A placebo controlled randomized trial. *PLoS One*. 2017, 12(12): e0188424. PMID: 29216203

Raed A, Dong Y, Huang Y, Gutin B, Dong Y, Zhu H. Associations between Global DNA Methylation and Telomere Length in Healthy Adolescents. *Scientific Reports*. 2017, 7: 4210. PMID: 28646162

TRANSLATIONAL RESEARCH PROGRAM PUBLICATIONS

Nahman NS, Bethel M, Yang FM, Li S, Oliver AM, Machua W, Kheda M, Carbone LD. Hydroxychloroquine in systemic lupus erythematosus patients with end stage renal disease. *J Investig Med*. 2017, 64: 908-910. PMID: 26911274

Nahman NS, Colombo CJ, Baer S, Blake L, Bollag WB, Colombo R, Diamond MJ, George V, Huber L, Merchen L, Miles K, Yang F. A departmental initiative for clinical and translational research. *J Investig Med.* 2017, 64: 1001-1005. PMID: 27073213

Nahman NS, Le B, Waller JL, Radhakrishnan R, Oh SJ, Kheda MF, Carbone LD. Osteoporotic fractures in patients with systemic lupus erythematosus and end stage renal disease. *Lupus.* 2017, 1: 17-24. PMID: 28530467

Nahman NS, Tirath A, Tadros S, Coffin SL, Kintziger K, Waller JL, Baer SL, Colombo RE, Huber LY, Kheda MF. Clostridium Difficile infection in dialysis patients. *J Investig Med.* 2017, 65: 353-357. PMID: 27737913