

ANNUAL REPORT

DEPARTMENT OF MEDICINE

2019-2020



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STATEMENT FROM THE CHAIRMAN
ACADEMIC YEAR 2020 (7/19 - 6/20)

Dear Colleagues and Friends:

I am pleased to share with you the Annual Report of the Department of Medicine at the University of Florida-College of Medicine - Jacksonville for the academic year July 2019 through June 2020. Despite the challenges created by the pandemic of Covid-19, the faculty and staff showed upmost degree of resilience and dedication and we were able to accomplish many of our goals. I will briefly describe the departmental accomplishments in our tripartite mission of excellence in patient care, education and research.

Patient care: Clinical volumes in all specialties was increasing up to the end of March 2020 when social distancing mandate along with patient concerns of the safety of clinic environment caused 35% reduction in patient encounters. Because of these challenges, Telehealth was implemented across all subspecialties. It is likely that this option of patient encounters will continue to be offered as many patients have expressed deep satisfaction with the newly implemented technology. Despite the challenges, the Department finished the year with a positive balance of the budget of \$976,214.

Education: The Department continues to excel in its mission of educating students and residents. There were unprecedented 36 faculty members in the Department who received the Exemplary Teacher Award. In addition, several faculty members and trainees in the Department of Medicine received key education awards. Dr. Taylor Palfrey received the Rosilie O. Saffos Outstanding Resident Teacher Award and Dr. Khadeeja Esmail received the Edward Jelks Outstanding Resident Clinician Award. Our annual continuing Medical Education (CME) initiatives were cancelled this academic year because of the pandemic. .

Research: The Department once again had a productive year in research. There were 165 peer-reviewed publications, 18 monographs and book chapters. Faculty made 113 national and 29 regional presentations. During the academic year 2020, we had 81 research awards. The scholarly productivity of the house staff remained high with 34% of all the presentations at the Annual Research Day were made by the residents and fellows within the Department.

Despite the challenges related to the pandemic, the Department excelled in every aspect of the academic mission. Our general internal medicine faculty and the critical care faculty along with our trainees were in the frontline of caring for patients with Covid-19 infections. Many of our subspecialists and advanced care providers volunteered to be back up providers for these patients. I am proud and humbled to have the privilege of serving as the Chairman of such an exceptionally productive Department.

Sincerely,

Arshag D. Mooradian, M.D.
Professor and Chair

DEPARTMENT ORGANIZATIONAL OVERVIEW
ACADEMIC YEAR 2020 (7/19 - 6/20)

Arshag D. Mooradian, M.D.

Chair, Department of Medicine

Linda R. Edwards, M.D.

Associate Chair, Department of Medicine

James Scolapio, M.D.

Associate Chair, Department of Medicine

Jeffrey House, D.O.

Associate Chair, Department of Medicine

Michael Haas, Ph.D.

Director of Research

Ronald Stone, M.B.A., R.D.

Director

DIVISION CHIEFS

Cardiology

Theodore Bass, M.D.

Endocrinology, Diabetes and Metabolism

Kent R. Wehmeier, M.D.

Gastroenterology

Peter Ghali, M.D.

General Internal Medicine

Linda R. Edwards, M.D.

Hematology and Medical Oncology

Walter Quan, Jr., M.D.

Infectious Disease

Michael Sands, M.D., M.P.H. & T.M.

Nephrology and Hypertension

Charles Heilig, M.D.

Pulmonary, Critical Care and Sleep Medicine

Lisa Jones, M.D.

Rheumatology and Clinical Immunology

Gurjit Kaeley, M.D.

EDUCATIONAL LEADERSHIP

Jeffrey House, D.O. Program Director, Internal Medicine Residency**Carlos Palacio, M.D., M.P.H.** Associate Program Director, Internal Medicine Residency**Elisa Sottile, M.D.** Associate Program Director, Internal Medicine Residency and Director, Medical Student Clerkship

RESIDENTS/FELLOWS**Chief Residents**

Kevin Green, MD
Peter Staiano, DO

Housestaff I

Aleem Ali, MD
Andres Arciniegas, MD
Joshua Calvert, MD
Kaleb Culpepper, DO
Nisha Chowdhury, MD
Pooja Dhruva, MD
Samuel Foldy, DO
Fadi Kandah, DO
Naji Maaliki, MD
Sebastian Mikulic, DO
Ryan Nelson, DO
Kintin Ng, DO
Phuong Nguyen, MD
Rebekah Padilla, DO
Nikita Patel, DO
Carly Rabinowitz, MD
Amy Roemer, DO
Spencer Streit, DO
Lauren Terpak, MD
Eby Thekkedath, DO

Housestaff II

Barrett Attarha, DO
Michael Chahin, DO
Madeline Fasen, DO
Christopher Izzo, DO
William Kogler, DO
Nithya Krishnan, MD
Andres Martinez, DO
Michael Omar, MD
Monique Oye, DO
Bijal Patel, DO
Kevin Rechcigl, DO
Kimberly Sanders, MD
Sandra Sheffield, DO
Anthony Stack II, DO

Housestaff III

Belinda Bajric, DO
Michael Carranza, DO, MS
Nancy Davison, DO
Sonal Jadeja, DO, MS
Joshua Lung, DO
Maria Del Mar Morales Hernandez, MD
Catarina Nolan Ruas Rego Canha, MD
Hamel Patel, DO
Rhumit Patel, DO
Jose Rivas Rios, MD
Patrishia Shelley, DO
Jorge Verdecia, MD
Firas Warda, MD
Unnati Wardan, DO

Subspecialty Fellow – Housestaff IV

Zaiyara Adorno Rivera, MD - Nephrology
Bashar Al-Turk, DO - Cardiology
Zachary Burden, MD - Pulmonary Critical Care

Medical School

Ross University School of Medicine
Edward Via College of Osteopathic Medicine, Virginia Campus

Medical School

Univ. of the West Indies Faculty of Medicine St. Augustine, Trinidad
University of Alabama School of Medicine
Ross University School of Medicine
Liberty University College of Osteopathic Medicine
Ross University School of Medicine
Rush Medical College of Rush University
Alabama College of Osteopathic Medicine
Lake Erie College of Osteopathic Medicine, Bradenton
LAU Gilbert and Rose-Marie Chagoury School of Medicine
Lake Erie College of Osteopathic Medicine, Bradenton
Lake Erie College of Osteopathic Medicine, Bradenton
Nova Southeastern University College of Osteopathic Medicine
University of Florida College of Medicine
Philadelphia College of Osteopathic Medicine
Lake Erie College of Osteopathic Medicine, Bradenton
Florida State University College of Medicine
Lake Erie College of Osteopathic Medicine, Bradenton
Nova Southeastern University College of Osteopathic Medicine
USF Health Morsani College of Medicine
Philadelphia College of Osteopathic Medicine

Medical School

Philadelphia College of Osteopathic Medicine
Edward Via College of Osteopathic Medicine, Carolinas Campus
Nova Southeastern University College of Osteopathic Medicine
Lake Erie College of Osteopathic Medicine, Bradenton
Lincoln Memorial University DeBusk College of Osteopathic Medicine
American University of the Caribbean School of Medicine
Nova Southeastern University College of Osteopathic Medicine
University of the West Indies Faculty of Medicine, Trinidad & Tobago
West Virginia School of Osteopathic Medicine
Philadelphia College of Osteopathic Medicine
Nova Southeastern University College of Osteopathic Medicine
St. George's University School of Medicine
Philadelphia College of Osteopathic Medicine
Lake Erie College of Osteopathic Medicine, Bradenton

Medical School

Lake Erie College of Osteopathic Medicine, Bradenton
Nova Southeastern University College of Osteopathic Medicine
Lake Erie College of Osteopathic Medicine, Bradenton
Lake Erie College of Osteopathic Medicine, Bradenton
Lake Erie College of Osteopathic Medicine, Bradenton
Ponce School of Medicine and Health Sciences
Universitat de Barcelona Facultat de Medicina
Lake Erie College of Osteopathic Medicine, Bradenton
Lake Erie College of Osteopathic Medicine, Bradenton
Universidad del Zulia Facultad de Medicina
Edward Via College of Osteopathic Medicine, Virginia Campus
Ross University School of Medicine
St. George's University School of Medicine
Des Moines University College of Osteopathic Medicine

Medical School

Universidad Iberoamericana (UNIBE) School of Medicine
Lake Erie College of Osteopathic Medicine, Bradenton
USF Health Morsani College of Medicine

Sebastian Carrasquillo Montalvo, MD - Cardiology
 Bakht Cheema, MD - Gastroenterology
 Russell Fung, MD - Endocrinology
 Carol Halasan, MD – Infectious Diseases
 Irtiza Hasan, MD - Nephrology
 Meet Kadakia, MD - Hematology Oncology
 Shreya Mishra, MD - Cardiology
 Angela Richter, DO - Endocrinology
 Jose Ruiz Morales, MD - Cardiology
 Edin Sadic, MD - Cardiology
 Jorge Trabanco, MD - Pulmonary Critical Care
 Herit Vachhani, MD - Gastroenterology
 Zareen Vaghaiwalla, MD - Rheumatology
 Dominika Zoltowska, MD - Cardiology

Subspecialty Fellow – Housestaff V

Malhar Agarwal, MD – Cardiology
 Kyeesha Becoats, MD - Cardiology
 Prabhjot Bhinder, MD – Medical Oncology
 Sebastian Carrasquillo, MD - Cardiology
 Hardik Chhatrala, MD, MPH – Hem/Oncology
 Shreya Ghetiya, MD - Cardiology
 Ciel Harris, MD - Gastroenterology
 Jaspreet Kaler, MD - Rheumatology
 Poonam Kalidas, MD - Endocrinology
 Trevanne Matthews-Hew, MD – Hem/Oncology
 Shrina Parekh, MD - Endocrinology
 Pujan Patel, MD - Cardiology
 Jose Reyes Oliva, MD - Nephrology
 Aaron Richardson, DO - Cardiology
 Stuart Shah, MD - Pulmonary Critical Care
 Mladen Sokanovic, MD – Infectious Disease
 Scott Steinberg, MD - Pulmonary Critical Care
 Lauren Stemborski, DO - Gastroenterology

Subspecialty Fellow – Housestaff VI

Steve Antoine, MD - Cardiology
 Allen Brown, MD - Cardiology
 W. Russ Cullinane, DO – Pulmonary Critical Care
 Khadeeja Esmail, MD - Cardiology
 Kerolos Fahmi, MD - Cardiology
 Maedah Ganji, MD, MBA - Cardiology
 Valery Muenyi, MD - Gastroenterology
 Ammar Nassri, MD - Gastroenterology
 W. Taylor Palfrey Jr, MD - Pulmonary Critical Care
 Chinelo Udemgba, MD - Cardiology

Subspecialty Fellow – Housestaff VII - 4

Joshua Levine, MD - CCEP
 Ismael Ortiz Cartagena, MD – Int. Cardiology
 Jainil Shah, MD – Int. Cardiology
 Kun Xiang, MD - CCEP

Subspecialty Fellowship Programs

Clinical Cardiac Electrophysiology (CCEP)
 Cardiology
 Endocrinology
 Gastroenterology
 Interventional Cardiology
 Infectious Disease
 Medical Oncology
 Nephrology
 Pulmonary Critical Care
 Rheumatology

Universidad Central del Caribe School of Medicine
 Shifa College of Medicine
 University of Alabama School of Medicine
 Cebu Institute of Medicine
 Ibrahim Medical College
 Seth G.S. Medical College
 FIU Herbert Wertheim College of Medicine
 Lake Erie College of Osteopathic Medicine, Bradenton
 Universidad Central del Caribe School of Medicine
 USF Health Morsani College of Medicine
 Ross University School of Medicine
 American University of Antigua College of Medicine
 St. George's University School of Medicine
 Medical University of Gdansk

Medical School

Christian Medical College, Ludhiana
 Stony Brook University Health Sciences Center School of Medicine
 Kilpauk Medical College
 Universidad Central del Caribe School of Medicine
 Pramukhswami Medical College
 Pandit Deendayal Upadhyay Medical College, Rajkot
 University of the West Indies, Barbados Faculty of Medical Sciences
 American University of Antigua College of Medicine
 USF Health Morsani College of Medicine
 University of the West Indies Faculty of Medical Sciences, Jamaica
 Windsor University School of Medicine
 Medical University of Lublin
 Facultad de Ciencias Medicas de Granma Celia Sanchez Manduley
 Edward Via College of Osteopathic Medicine, Virginia Campus
 Ross University School of Medicine
 University of Novi Sad Faculty of Medicine
 Ross University School of Medicine
 Lake Erie College of Osteopathic Medicine, Bradenton

Medical School

American University of the Caribbean School of Medicine
 University of Tennessee Health Science Center College of Medicine
 William Carey University College of Osteopathic Medicine
 Ross University School of Medicine
 USF Health Morsani College of Medicine
 St. Matthew's University School of Medicine
 Meharry Medical College School of Medicine
 Royal College of Surgeons in Ireland - Medical University of Bahrain
 Ross University School of Medicine
 University of Mississippi School of Medicine

Medical School

University at Buffalo School of Medicine and Biomedical Sciences
 Michigan State University College of Human Medicine
 Pramukhswami Medical College
 Southern Medical University

Program Director

John Catanzaro, MD (Interim)
 Gladys Velarde, MD
 Gunjan Gandhi, MD
 Peter Ghali, MD
 Dominick Angiolillo, MD
 Michael Sands, MD
 Dat Pham, MD
 Charles Heilig, MD
 Vandana Seeram, MD
 Gurjit Kaeley, MD

GRADUATE MEDICAL EDUCATION
ACADEMIC YEAR 2020 (7/19 - 6/20)

Highlights

This academic year has had challenges due to the COVID-19 pandemic. Despite these trying times that had major impacts on the latter half of this year, the program continued to flourish and enjoy lots of success. The program continued to pursue excellence in several areas, including scholarship, board pass rate, quality improvement, and fellowship match. The fellowships continue to produce high quality physicians, and the newest fellowship, rheumatology, has matured into a highly competitive training program. The core residency program remains strong in graduating residents who will support the community and fellowship remains a desirable future for the majority of our trainees.

At the Annual Program Evaluation, the program reviewed components of its Self-study, including the program's SWOT analysis and Aims. In particular, the program Aims were reaffirmed and deemed reflective of the academic mission of our residency program. They remain as follows:

- Produce competent, independent practicing internists, who have the ability to comprehensively care for patients in both inpatient and outpatient settings
- Prepare competitive resident applicants for fellowship, who have the opportunity to pursue other interests beyond internal medicine. This may include scholarship, education, advocacy, or leadership
- Train practitioners to have a basic understanding of quality improvement and patient safety
- Produce residents who will serve the local community through their practice of primary care, hospital medicine, and medical subspecialties. These practitioners should have expertise in treating the variety of patient populations in our community, with a particular understanding for the medically underserved.
- Develop well-adjusted residents through a programmatic focus on physician well-being. The intent being that emotionally healthy physicians will be more resilient and able to deliver the best care to our community.

The residency graduating class of 2020 was diverse in their destinations following graduation. Seven of our graduates sought fellowship training in the subspecialties of cardiology, gastroenterology, pulmonary/critical care, infectious diseases, and endocrinology. While some graduates pursued fellowships at other institutions, four residents are staying in Jacksonville for fellowship. Others have pursued hospital medicine in the Southeast and Southwest regions of the country.

The class of 2019 was very successful on the American Board of Internal Medicine examination achieving a 100% pass rate. This brings the ABIM three year rolling average to 95%, in line with the national average. The program continues to provide trainees with a plethora of board preparation materials in addition to high quality clinical training; we expect the entire class of 2020 to pass the exam.

The leadership within the residency program remained stable for the past academic year. Drs. Kevin Green and Peter Staiano continued the tradition of strong Chief Resident teaching and leadership. They continued to build on the strong foundation from their predecessors that included the continuation of Research Club. The Research Club is a forum for trainees to present new ideas and proposed projects in front of seasoned faculty, research professionals, and fellow trainees to solicit advice and feedback before embarking on a new research endeavor. In addition, they helped develop an ultrasound curriculum (bedside echocardiography, pulmonary, renal and bladder examinations) that included morning lectures in Morning Report, and clinical bedside training using Butterfly ultrasounds and hands on training in the Center for Simulation Education and Safety Research (CESar).

As in years past, the Department of Medicine had a plethora of faculty receiving Exemplary Teacher Awards. A remarkable 36 faculty were recipients this year and are listed in the Honors and Awards section below along with the resident teaching award recipient, Dr. Maria del Mar Morales Hernandez. Dr. Jose Rivas Rios was a finalist for the Louis S. Russo Jr., Resident Award for Outstanding Professionalism. Dr. Belinda Bajric was a finalist for the Edward Jelks Outstanding Resident Clinician Award and Dr. Maria del Mar Morales Hernandez was a finalist for the Rosilie O. Saffos Outstanding Resident Teacher Award. A comprehensive list of award recipients is included in the Honors and Awards section.

The residents presented to local conferences of the Duval County Medical Society Annual Meeting and the UF College of Medicine Research Day in Jacksonville. Presentations were also made at regional conferences that included the Florida Chapter of the American College of Physicians Meetings, Miami Valves Meeting, Florida Chapter of the American College of Cardiology, Florida Medical Association, American Federation for Medical Research Southern Region, Society of Hospital Medicine, and Southern Hospital Medicine. Residents even presented at prestigious national conferences that include American College of Cardiology, American Thyroid Association, American Society of Nephrology, and the American College of Gastroenterology meetings. Residents continue to produce a high volume of scholarly activity that included presentations, publications, abstracts, and grants.

The internal medicine residency continues to make curricular changes to meet the new ever changing landscape of Graduate Medical Education. The program made significant strides in ultrasound training. The online learning platform and curriculum continued to develop under the leadership of our chief residents, Kevin Green and Pete Staiano, as well as our faculty Dr. Brittany Lyons and Win Aung. Point of Care US (POCUS) became more available with the addition of hand held ultrasounds, and this has significantly increased the experience residents have in diagnostic ultrasound.

The medical student experience in the Department of Medicine has continued to thrive with Dr. Elisa Sottile as the Clerkship Director for the Jacksonville campus. Dr. Sottile meets with students individually, provides feedback, facilitates their self-reflection, and plans for growth. As a member of the UF College of Medicine Regional Medical Campus Task Force, Dr. Sottile helped fashion innovative changes to the student curriculum to provide an opportunity for learners to better understand health systems science as well as how the social determinants of health impact their provision of care to an underserved population. The campus continues to attract visiting medical students from other institutions. The clerkship notably continued to grow in terms of the number of students coming from other medical schools to do elective rotations. These students rotate on internal medicine, inpatient cardiology, MICU, endocrinology, infectious disease, and nephrology. Many of these students interviewed with us and eventually matched to become residents.

This summary would not be complete without some notation about the difficulties from the COVID-19 pandemic. All programs were required to make rapid and drastic changes to nearly every aspect of health care and education. The divisions will reference the clinical aspect, but the educational mission was met with several threats that needed to be dealt with promptly. First, the conferences and lectures were changed to a virtual format. A number of new technologies were introduced to be able to enhance the teaching experience, including Zoom, Poll Everywhere, cameras, microphones, and iPad technology. Residents and Fellows quickly adapted to virtual health care visits. Despite cancellation of all local, regional, and national conferences, trainees continued to pursue scholarship. Many of the conferences became virtual and many started accepting electronic abstract submissions. As one might expect, although there was not yet an increase in cases of COVID-19 at our institution, there was significant stress on all physicians, especially residents and fellows. The program and department leadership recognized this and began to address this. The core residency program adapted to the changes well in all the facets of training, healthcare, and well-being while maintaining cohesiveness.

LISTING OF RESIDENCY PROGRAM LEADERSHIP



Jeff House, DO, Professor, Associate Chair of Education & Quality Improvement, and Program Director

| | |
|----------------------|------------------------------------|
| Medical School | Nova Southeastern University |
| Rotating Internship | Broward General Hospital |
| Internship/residency | University of Florida Jacksonville |



Carlos Palacio, MD, Professor, Associate Program Director

| | |
|----------------------------------|------------------------------------|
| Medical School / Graduation date | University of Miami |
| Internship/residency and year | University of Florida Jacksonville |
| Chief Medical Resident | University of Florida Jacksonville |



Elisa Sottile, MD, Assistant Professor, Associate Program Director, & Clerkship Director

| | |
|------------------------|-------------------------------------|
| Medical School | Temple University |
| Internship/residency | Graduate Hospital, Philadelphia, PA |
| Chief Medical Resident | Graduate Hospital, Philadelphia, PA |



Kevin R. Green, MD, Post-doctoral Associate and Chief Medical Resident

| | |
|------------------------|------------------------------------|
| Medical School | Ross University School of Medicine |
| Internship/residency | University of Florida Jacksonville |
| Chief Medical Resident | University of Florida Jacksonville |



Peter Staiano, DO, Post-doctoral Associate and Chief Medical Resident

| | |
|------------------------|--|
| Medical School | Edward Via College of Osteopathic Medicine |
| Internship/residency | University of Florida Jacksonville |
| Chief Medical Resident | University of Florida Jacksonville |

PUBLICATIONS

Sorted by category (published manuscripts, published abstracts, presentations and grants), and by year within each category. Residents are underlined.

Published manuscripts

Stack A, Terpak L, Masri G. Diabetic ketoacidosis in a patient with COVID-19. Consultant. Published online June 15, 2020. doi:10.25270/con.2020.06.00021

Omar MB. Covid-19 and the angiotensin-converting enzyme (ACE2): Areas for research [published online ahead of print, 2020 Apr 20]. Heart Lung. 2020;S0147-9563(20)30146-1. doi:10.1016/j.hrtlng.2020.04.012. PMID: 32327200.

Fasen M, Jacob R. Addressing gynecological care and contraception in women with cerebral palsy. J Child Dev Disord. 2020; 7(1). April 2020

Chahin M, Oye M, Jadeja S, Sanders K, Reddy P. Topiramate causing type II renal tubular acidosis: A case and review of the mechanism. Clin Case Rep. 2020;8(4):731–733. Published 2020 Feb 18. doi:10.1002/ccr3.2733. PMID: 32274047.

Maharaj S, Omar MB, Seegobin K, Chang S. Trousseau syndrome. Cleveland Clinic Journal of Medicine April 2020, 87 (4) 199-200; doi.org/10.3949/ccjm.87a.19086

Omar MB, Kogler W, Maharaj S, Aung W. Renal artery stenosis presenting as preeclampsia. Clin Hypertens. 2020 Apr 1;26:6. doi:10.1186/s40885-020-00140-4. PMID: 32257378

Franchi F, Rollini F, Rivas J, et al. Prasugrel versus ticagrelor in patients with cyp2c19 loss-of-function genotypes: results of a randomized pharmacodynamic study in a feasibility investigation of rapid genetic testing. JACC Cardiovasc Interv. 2020 Mar

Kaler J, Sheffield S, Thway M, Ramsubeik K, Kaeley G. Pyoderma gangrenosum as a presenting feature of undifferentiated spondyloarthropathy with erosive inflammatory arthritis. Case Rep Rheumatol. 2020 Mar 26;2020:1848562. doi:10.1155/2020/1848562. PMID: 32274238

Jadeja S, Green K, Shuja A, Malespin M, De Melo, S. Esophageal-bronchial artery fistulation a rare complication of an endobronchial ultrasound. ACG Case Rep J. 2020 Mar 19;7(4):e00355. doi: 10.14309/crj.0000000000000355. PMID: 32548187

Krishnan N, Sheffield S, Arciniegas A, Vaghaiwalla Z, Kaeley G. A rare case of ecthyma gangrenosum [published online ahead of print, 2020 Feb 19]. J Clin Rheumatol. 2020;10.1097/RHU.0000000000001338. doi:10.1097/RHU.0000000000001338. PMID: 32084072

Kogler W, Canha C, Makary R, Omman R, Isache CL. Multiple myeloma with extensive AL amyloidosis presenting as chronic diarrhoea. BMJ Case Rep. 2020;13(1):e232934. Published 2020 Jan 8. doi:10.1136/bcr-2019-232934. PMID: 31919068

Krishnan N, Patel B, Palfrey W, Isache C. Rapidly progressive necrotizing cellulitis secondary to Candida tropicalis infection in an immunocompromised host. IDCases. 2020;19:e00691. Published 2020 Jan 3. doi:10.1016/j.idcr.2019.e00691. PMID: 31988847

Chahin M, Krishnan N, Chhatrala H, Shaikh M. A 5-fluorouracil-induced hyperammonemic encephalopathy challenged with capecitabine. Case Rep Oncol Med. 2020;2020:4216752. Published 2020 Jan 31. doi:10.1155/2020/4216752. PMID: 32082663

Chahin M, Chhatrala H, Krishnan N, Brow D, Zuberi L. Triple-Negative Lobular Breast Cancer Causing Hydronephrosis. J Investig Med High Impact Case Rep. 2020;8:2324709620905954. doi:10.1177/2324709620905954. PMID: 32043897

Bhinder P, Chahin M, Zuberi L. Concurrent squamous cell carcinoma and chronic lymphocytic leukemia presenting as an enlarging neck mass. *J Investig Med High Impact Case Rep.* 2019;7:2324709619842904. doi:10.1177/2324709619842904. PMID: 31010317

Franchi F, Rollini F, Garcia E, Rivas Rios J, et al. Effects of edoxaban on the cellular and protein phase of coagulation in patients with coronary artery disease on dual antiplatelet therapy with aspirin and clopidogrel: results of the EDOX-APT study. *Thromb Haemost.* 2020;120(1):83–93. doi:10.1055/s-0039-1695772. PMID: 31470444

Krishnan N, Zuberi L, Shukri A, Gopinath A, Haymes D. Langerhans cell histiocytosis presenting as progressively worsening neck pain: a case report with a review of literature. *J Investig Med High Impact Case Rep.* 2019;7:2324709619886757. doi:10.1177/2324709619886757. PMID: 31694399

Oye M, Chahin M, Krishnan N, Reddy P. Neurosarcooidosis manifesting as panhypopituitarism. *Clin Case Rep.* 2019;7(12):2472–2475. Published 2019 Nov 11. doi:10.1002/ccr3.2521. PMID: 31893082

Chahin M, Seegobin K, Maharaj S, Ramsubeik K. Metastatic ductal adenocarcinoma of the breast presenting with pericardial effusion-Challenges in the diagnosis of breast cancer. *Clin Case Rep.* 2019;7(12):2384–2387. Published 2019 Oct 24. doi:10.1002/ccr3.2497. PMID: 31893064

Patel H, Patel B, Jadeja S, Isache C. Central nervous system nocardiosis masquerading as metastatic brain lesions. *IDCases.* 2019;18:e00652. Published 2019 Oct 1. doi:10.1016/j.idcr.2019.e00652. PMID: 31720223

Franchi F, Rollini F, Kairouz V, Rivas Rios J, et al. Pharmacodynamic effects of vorapaxar in patients with and without diabetes mellitus: results of the OPTIMUS-5 study. *JACC Basic Transl Sci.* 2019;4(7):763–775. Published 2019 Sep 1. doi:10.1016/j.jacbts.2019.07.011. PMID: 31998847

Verdecia J, Hernandez J, Izzo C, Sottile E, Isache C. Methicillin-resistant *Staphylococcus aureus* (MRSA) sepsis complicated by warm autoimmune haemolytic anaemia secondary to antimicrobial therapy. *BMJ Case Rep.* 2019;12(8):e229114. Published 2019 Aug 28. doi:10.1136/bcr-2018-229114. PMID: 31466968

Ganji M, Ruiz J, Kogler W, Lung J, Hernandez J, Isache C. Methicillin-resistant *Staphylococcus aureus* pericarditis causing cardiac tamponade. *IDCases.* 2019;18:e00613. Published 2019 Aug 1. doi:10.1016/j.idcr.2019.e00613. PMID: 31453103

Franchi F, Rollini F, Park Y, Hu J, Kureti M, Rivas Rios J, et al. Effects of methylnaltrexone on ticagrelor-induced antiplatelet effects in coronary artery disease patients treated with morphine. *JACC Cardiovasc Interv.* 2019;12(16):1538–1549. doi:10.1016/j.jcin.2019.05.028. PMID: 31377269

Omar M, Kogler W, Izzo C, Jones L. Arteriovenous fistula formation after central venous catheterisation. *BMJ Case Rep.* 2019;12(7):e230429. Published 2019 Jul 10. doi:10.1136/bcr-2019-230429. PMID: 31296624

Chahin M, Kogler W, Stack A, Lyons B. Sister Mary Joseph nodule in advanced prostate cancer. *J Am Osteopath Assoc.* 2020 Jul 1;120(7):476–478. doi: 10.7556/jaoa.2020.075. PMID: 32598461

Nguyen B, Hernandez MDMM, Baldeo C, Cury J, Ferreira JA. A case-report of successful use of thromboelastography to manage anticoagulation therapy in a patient with concomitant catastrophic antiphospholipid syndrome and heparin-induced thrombocytopenia. *Blood Coagul Fibrinolysis.* 2019;30(4):171–175. doi:10.1097/MBC.0000000000000810. PMID: 31090599

Published abstracts

Shah S, Wardan U, Culpepper K, Seeram, V, Najjar N. An uncommon presentation of obstructive shock. Am J Respir Crit Care Med. 2020;000(0):000.

Shah S, Culpepper K, Wardan U, Omman RA, Gopinath A, Seeram VK, Najjar N. A unique presentation of fever of unknown origin in an hiv infected patient. Am J Respir Crit Care Med. 2020;000(0):000.

Richardson AC, Omar MB, Velarde G, Percy R. Right atrial appendage thrombus as a result of atrial fibrillation. J Am Coll Cardiol. 2020 Mar, 75 (11 Supplement 1) 2870. doi: 10.1016/S0735-1097(20)33497-5.

Patel PP, Mikulic S, Sheffield S, Canha C, Velarde G. Heerfordt syndrome manifesting as cardiac sarcoidosis. J Am Coll Cardiol. 2020 Mar, 75 (11 Supplement 1) 2653. Doi: 10.1016/S0735-1097(20)33280-0.

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Omar MB, Martinez A, Al-Turk B, Shah JJ. Diabetic ketoacidosis and ST-elevation myocardial infarction: the chicken or the egg. J Am Coll Cardiol. 2020 Mar, 75 (11 Supplement 1) 2419. doi: 10.1016/S0735-1097(20)33046-1.

Patel H, Shelley P, Wardan U. Posterior reversible encephalopathy syndrome elucidating diagnosis of pheochromocytoma. J Investig Med 2020;68:682.

Patel B, Cury J, Najjar N. Ectopic cushing's syndrome in metastatic small cell carcinoma. J Investig Med 2020;68:682.

Martinez A. Investigational cefiderocol use in treatment of multi-drug resistant achromobacter spp. J Investig Med 2020;68:693.

Fasen M. Bullous dermatosis as an usual manifestation of multiple myeloma. J Investig Med 2020;68:675.

Stack A, Omar MB, Chahin M. Troponin elevation in a patient with acquired prolonged qt-syndrome. J Investig Med 2020;68:674.

Krishnan N, Rehcgil K, Arciniegas A, Vaghaiwalla Z, Kaeley G. An open wound with an open question: is it ecthyma gangrenosum? J Investig Med 2020;68:634.

Shelley P. Aortic root abscess leading to st-elevation myocardial infarction. J Investig Med 2020;68:431–720.

Sanders K. Pleuropericardial effusion, the first manifestation of mature b cell lymphoma. J Investig Med 2020;68:635.

Omar MB, Sanders K, Oye M, Richardson A. Cardiac tamponade from metastatic appendiceal adenocarcinoma: first reported case. J Investig Med 2020;68:452.

Attarha B, Martinez AE, House J. Metastatic melanoma interfering with limb movement. J Investig Med 2020;68:504.

Davison N. Abscess preventing gap closure in diabetic ketoacidosis. J Investig Med 2020;68:531.

- Fasen M. The tuberculosis masquerade - disseminated tuberculosis presenting as effect of leukemia treatment. J Investig Med 2020;68:532.
- Izzo C, Wardan U. Granulomatosis with polyangiitis presenting as acute myocardial infarction in an elderly patient. J Investig Med 2020;68:600.
- Kogler W, Canha C, Stack AS, Isache C. Lupus nephritis in a young male presenting with arthritis. J Investig Med 2020;68:468.
- Kogler W, Omar MB, Chahin M, Canha C, Reddy P. Mid-ventricular variant takotsubo following sudden cardiac arrest. J Investig Med 2020;68:478.
- Krishnan N, Chahin M, Oye M, Shaikh M. Multiple myeloma with initial presentation of spinal shock. J Investig Med 2020;68:513.
- Lung J, Ruiz J, Martinez AE, Attarha B, Rivas JR. An exceedingly rare case of bullous pemphigoid in the setting of multiple myeloma. J Investig Med 2020;68:514.
- Lung J, Krishnan N, Martinez AE, Oye M, Patel H. A diagnostic dilemma: recognizing propofol infusion syndrome. J Investig Med 2020;68:602.
- Martinez A, Attarha B, Lung J. Symptomatic anemia due to upper gastrointestinal bleed in the setting of itp. J Investig Med 2020;68:518.
- Omar MB, Martinez AE, Niazi A, Ruiz-Morales J. Caseous mitral annular calcification presenting as a stroke. J Investig Med 2020;68:480.
- Oye M, Krishnan N, Patel B, Reddy P. Waldenström macroglobulinemia: an unusual cause of severe immune thrombocytopenic purpura. J Investig Med 2020;68:521.
- Oye M, Wardan U, Krishnan N, Aung W. Malignancy-associated sweet's syndrome mimicking cellulitis. J Investig Med 2020;68:522.
- Patel R, Sanders K, Oye M. A rare case of serratia endocarditis. J Investig Med 2020;68:485.
- Rivas Rios J, Lung J, Rivas A, Aung W, Shaikh M. Acquired combined factor viii & xi deficiency: an uncommon hemophylia presentation. J Investig Med 2020;68:523.
- Sanders K, Omar MB, Patel R. Pheochromocytoma presenting as a stroke. J Investig Med 2020;68:485.
- Stack A, Chahin M. Hemophagocytic lymphohistiocytosis in a patient presenting with gastrointestinal symptoms. J Investig Med 2020;68:526.
- Wardan U. Rare cause of pulmonary empyema. J Investig Med 2020;68:544.
- Wardan U, Patel H. Lyme disease presenting as atrioventricular block. J Investig Med 2020;68:545.
- Patel H, Smotherman C, Ilic L. Interdialytic creatinine rise as a predictor of hospital length of stay and cause of shortness of breath in end-stage-renal-disease patients. J Am Soc Nephrol 30: 2019; 843.
- Sheffield SL, Shaikh M, Chhatrala H. Atypical metastasis of papillary renal cell carcinoma to the cervical neck region. Ann Clin Case Rep.2019;4:1735.
- Richardson A, Rivas J, Franchi F. Left ventricular noncompaction, gardner syndrome, and desmoid tumors, a genetic connection? CHEST 2019;156:A531, doi.org/10.1016/j.chest.2019.08.533.

Presentations

Ali A. Severe hypomagnesemia caused by PPI in a patient with an ostomy. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Attarha B. Upper GI bleed and Leionnella: an unexpected consequence. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Bajric B. Secondary pulmonary alveolar proteinosis presenting as steroid non-responsive interstitial lung disease in anti-MDA5 associated amyopathic dermatomyositis. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Canha C. Infective endocarditis of all four native cardiac valves. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Carranza M. Concurrent hepatic tuberculosis and drug-induced liver injury discovered on liver biopsy during induction chemotherapy for acute promyelocytic leukemia. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Chahin M. Serum and ascitic eosinophilia due to urothelial carcinoma. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Davison N. Abscess preventing gap closure in diabetic ketoacidosis. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Jadeja S. Choledocholithiasis: an incidental finding during endoscopic ultrasound guided liver biopsy. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Kogler W. Ventricular tachycardia secondary to severe coronary artery ectasia. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Lung J. An unusual case of bullous pemphigoid in setting of multiple myeloma. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Morales M. Unique presentation of disseminated intravascular coagulation in patient with emphysematous pyelitis. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Omar MB. Caseous mitral annular calcification: a rare cause of stroke. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Oye M. Caseous mitral annular calcification: a rare cause of stroke. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Padilla R. Painless vision loss in a healthy 28-year-old-Honduran male. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Patel H. Rare case of single coronary artery system. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Patel R. A rare case of serratia endocarditis. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

Rivas Rios J. Mucocutaneous ulceration and pancytopenia: A rare presentation of Methotrexate toxicity. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.

- Shelley P. Idiopathic necrotizing autoimmune myopathy. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.
- Warda F. Amlodipine-induced acute interstitial nephritis. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.
- Wardan U. Mycobacterium avium complex lymphadenitis and irsi mimicking lymphoma. Poster presentation at: University of Florida College of Medicine Jacksonville Research Day; Jacksonville, FL. June 2020.
- Omar MB. Vasopressor associated symmetric peripheral gangrene: life or limbs? Poster presentation at: American College of Physicians Internal Medicine Meeting; Los Angeles, CA. April 2020.
- Rivas Rios J. Spontaneous resolution of ventricular standstill after myocardial infarction with non-obstructive CAD. Poster presentation at: American College of Cardiology/World Congress of Cardiology; Chicago, IL. March 2020.
- Omar MB. Diabetic ketoacidosis and st-elevation myocardial infarction: the chicken or the egg. Poster presentation at: American College of Cardiology/World Congress of Cardiology; Chicago, IL. March 2020.
- Kogler W. Acute coronary syndrome caused by blunt force trauma. Poster presentation at: American College of Cardiology/World Congress of Cardiology; Chicago, IL. March 2020.
- Kandah F. Because I got high: marijuana induced pseudo-wellens syndrome. Poster presentation at: Florida Chapter American College of Physicians; Orlando, FL. March 2020.
- Martinez A. Left ventricular non-compaction presenting as cardio-embolic stroke. Poster presentation at: Florida Chapter American College of Physicians; Orlando, FL. March 2020.
- Oye M. Improving the safety of bedside paracentesis performed by internal medicine residents. Poster presentation at: Florida Chapter American College of Physicians; Orlando, FL. March 2020.
- Sanders K. Helicobacter pylori therapy reducing proteinuria in a patient with primary FSGS. Poster presentation at: Florida Chapter American College of Physicians; Orlando, FL. March 2020.
- Wardan U. B12 deficiency mimicking thrombotic thrombocytopenic purpura. Poster presentation at: Florida Chapter American College of Physicians; Orlando, FL. March 2020.
- Patel H. Posterior reversible encephalopathy syndrome elucidating diagnosis of pheochromocytoma. Oral presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.
- Patel B. Ectopic cushing's syndrome in metastatic small cell carcinoma. Oral presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.
- Martinez A. Investigational cefiderocol use in treatment of multi-drug resistant achromobacter spp. Oral presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.
- Fasen M. Bullous dermatosis as an usual manifestation of multiple myeloma. Oral presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.
- Stack A. Troponin elevation in a patient with acquired prolonged qtsyndrome. Oral presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.
- Rechcigl K. An open wound with an open question: is it ecthyma gangrenosum? Oral presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

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Sanders K. Pleuropericardial effusion, the first manifestation of mature b cell lymphoma. Oral presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Omar M. Cardiac tamponade from metastatic appendiceal adenocarcinoma: first reported case. Oral presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020. (Cardiovascular Case Report Award).

Attarha B. Metastatic melanoma interfering with limb movement. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Davison N. Abscess preventing gap closure in diabetic ketoacidosis. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Fasen M. The tuberculosis masquerade - disseminated tuberculosis presenting as effect of leukemia treatment. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Izzo C. Granulomatosis with polyangiitis presenting as acute myocardial infarction in an elderly patient. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Kogler W. Lupus nephritis in a young male presenting with arthritis. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Kogler W. Mid-ventricular variant takotsubo following sudden cardiac arrest. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Krishnan N. Multiple myeloma with initial presentation of spinal shock. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

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Martinez A. Symptomatic anemia due to upper gastrointestinal bleed in the setting of itp. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Omar M. Caseous mitral annular calcification presenting as a stroke. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Oye M. Waldenström macroglobulinemia: an unusual cause of severe immune thrombocytopenic purpura. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Oye M. Malignancy-associated sweet's syndrome mimicking cellulitis. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Patel R. A rare case of serratia endocarditis. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Rivas Rios J. Acquired combined factor viii & xi deficiency: an uncommon hemophilia presentation. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Sanders K. Pheochromocytoma presenting as a stroke. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Stack A. Hemophagocytic lymphohistiocytosis in a patient presenting with gastrointestinal symptoms. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Wardan U. Rare cause of pulmonary empyema. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Wardan U. Lyme disease presenting as atrioventricular block. Poster presentation at: American Federation of Medical Research Southern Regional Meeting; New Orleans, LA. February 2020.

Omar M. Disseminated cryptococcal disease presenting as acute encephalopathy. Poster presentation at: Society of Hospital Medicine Meeting Florida Chapter; Orlando, FL. February 2020.

Kogler W. TTP masquerading as hypertensive emergency. Poster presentation at: Society of Hospital Medicine Meeting Florida Chapter; Orlando, FL. February 2020.

Wardan U. MAC lymphadenitis and IRIS mimicking lymphoma. Poster presentation at: Society of Hospital Medicine Meeting Florida Chapter; Orlando, FL. February 2020.

Ali A. Achromobacter xylosoxidans native valve endocarditis. Poster presentation at: Miami Valves Meeting; Miami, FL. January 2020.

Patel H. Interdialytic creatinine rise as a predictor of hospital length of stay and cause of shortness of breath in end-stage-renal-disease patients. Poster presentation at: American Society of Nephrology Annual Meeting; Washington, DC. November 2019.

Warda F. Nivolumab-induced thyroiditis resulting in hyperthyroid symptoms followed by hypothyroid state. Oral presentation at: American Thyroid Association Annual Meeting; Chicago, IL. November 2019.

Attarha B. Renal cell carcinoma presenting as paraneoplastic syndrome involving the gastrointestinal tract. Oral presentation at: American College of Gastroenterology Annual Meeting; San Antonio, TX. October 2019.

Chahin M. Cancers with highest predisposition to brain metastasis at diagnosis. Poster presentation at: Duval County Medical Society Annual Meeting; Jacksonville, FL. October 2019.

Chahin M. Relapsed non-hodgkin lymphoma manifesting as spinal cord compression. Poster presentation at: Southern Hospital Medicine Annual Meeting; New Orleans, LA. October 2019.

Chahin M. Confusion in the cancer patient: a case of fluorouracil causing hyperammonemic encephalopathy. Poster presentation at: Southern Hospital Medicine Annual Meeting; New Orleans, LA. October 2019.

Krishnan N. Multiple myeloma: an uncommon cause of tumor lysis syndrome, leading to an inpatient emergency. Poster presentation at: Southern Hospital Medicine Annual Meeting; New Orleans, LA. October 2019.

Kogler W. Multiple myeloma with extensive amyloidosis presenting as chronic diarrhea. Poster presentation at: Southern Hospital Medicine Annual Meeting; New Orleans, LA. October 2019.

Oye M. A bloody cause of breathlessness and supracristal ventricular septal defect: an uncommon cause with a common presentation. Poster presentation at: Southern Hospital Medicine Annual Meeting; New Orleans, LA. October 2019.

Sanders K. A rare case of benign recurrent intrahepatic cholestasis and pheochromocytoma presenting as a stroke. Poster presentation at: Southern Hospital Medicine Annual Meeting; New Orleans, LA. October 2019.

Attarha B. Vogt-koyanagi-harada disease manifesting as sudden onset blindness. Poster presentation at: Florida Chapter American College of Physicians; Fort Lauderdale, FL. September 2019.

Patel B. Ectopic cushing's syndrome in metastatic small cell carcinoma. Poster presentation at: Florida Chapter American College of Physicians; Fort Lauderdale, FL. September 2019.

Oye M. What lies beneath: progressively worsening neck pain as the presenting feature of langerhans cell histiocytosis. Poster presentation at: Florida Chapter American College of Physicians; Fort Lauderdale, FL. September 2019.

Chahin M. Cancers with highest frequency of brain metastasis at diagnosis: a study of 2,797,100 patients from 2010-2016 in seer database. Poster presentation at: Florida Chapter American College of Physicians; Fort Lauderdale, FL. September 2019.

Canha C. Infective endocarditis of all four native cardiac valves. Poster presentation at: Florida Chapter American College of Cardiology; Orlando, FL. August 2019.

Canha C. Cannabis-associated st-segment elevation myocardial infarction. Poster presentation at: Florida Medical Association Meeting; Orlando, FL. August 2019.

Warda F. Sickle cell patient presenting with hyperhemolysis syndrome secondary to cold agglutinin disease. Poster presentation at: Florida Medical Association Meeting; Orlando, FL. August 2019.

Patel H. Behcet's syndrome and the spectrum of its involvement. Poster presentation at: Florida Medical Association Meeting; Orlando, FL. August 2019.

Morales M. Alloimmunization in sickle cell disease - a clinical challenge. Poster presentation at: Florida Medical Association Meeting; Orlando, FL. August 2019.

GRANTS

Attarha B, Omar M. Effect of Trimethobenzamide on QTc interval in patients with prolonged QTc interval at baseline: a prospective observational study. Project period: October 2019 to October 2020. Sponsor: University of Florida College of Medicine - Jacksonville. Role: Principal Investigator and Co-PI.

ENDOWMENTS AND GIFTS

The Anne and Max Michael, Jr. Education Fund, Established 2006, by Mrs. Anne Michael

HONORS AND AWARDS

| | |
|----------------------|--|
| Carly Rabinowitz, MD | Intern of the Year |
| Belinda Bajric, DO | Senior Resident of the Year |
| Jorge Verdecia, MD | Procedure Completion Award |
| Taylor Palfrey, MD | Fellow of the Year |
| Vandana Seeram, MD | Teacher of the Year |
| Hamel Patel, DO | Best Conference Attendance |
| Jose Rivas Rios, MD | ACP Resident of the Year |
| Firas Warda, MD | Malcolm T. Foster, Jr., MD Scholarship Award |

Belinda Bajric, DO was a finalist for the Edward Jelks Outstanding Resident Clinician Award.

Maria del Mar Morales Hernandez, MD was a finalist for the Rosilie O. Saffos Outstanding Resident Teacher Award.

Jose Ramon Rivas Rios, MD was a finalist for the Louis S. Russo Jr., Award for Outstanding Resident Professionalism in Medicine.

Maria del Mar Morales Hernandez, MD is one of the recipients of the resident UF College of Medicine Exemplary Teachers Award.

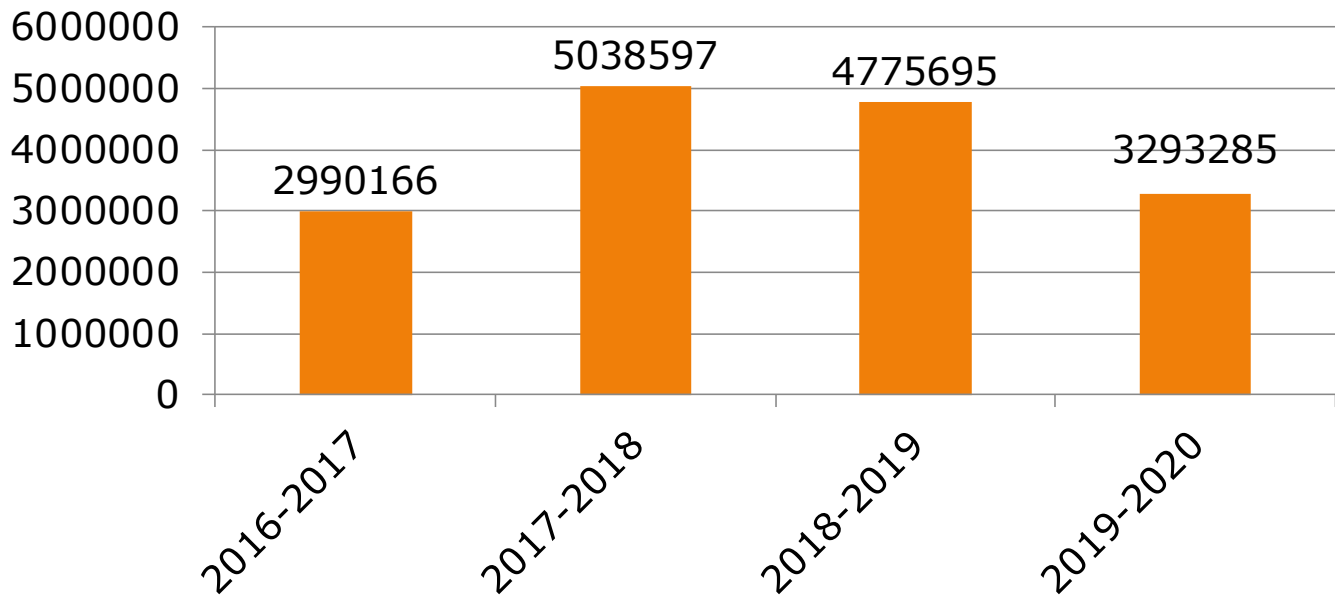
CLASS OF 2020 DESTINATIONS

| <u>Chief Medical Residents</u> | <u>Professional Status</u> | <u>Location</u> |
|-------------------------------------|------------------------------------|------------------------------------|
| Kevin Green, MD | Pulmonary/Critical Care Fellowship | University of Florida Jacksonville |
| Peter Staiano, DO | Pulmonary/Critical Care Fellowship | University of Florida Jacksonville |
| <u>Preliminary Residents</u> | <u>Professional Status</u> | <u>Location</u> |
| Andres Arciniegas, MD | Neurology Residency | University of Florida Jacksonville |
| Kaleb Culpepper, DO | Neurology Residency | University of Florida Jacksonville |
| Ryan Nelson, DO | Neurology Residency | University of Florida Jacksonville |
| Phuong Rose Nguyen, MD | Internal Medicine Residency | Morehouse School of Medicine |
| Rebekah Padilla, DO | Radiology Residency | University of Florida Jacksonville |
| Lauren Terpak, MD | Neurology Residency | University of Florida Jacksonville |
| <u>Categorical Residents</u> | <u>Professional Status</u> | <u>Location</u> |
| Belinda Bajric, DO | Baptist Hospital Medicine | Jacksonville, FL |
| Catarina Canha, MD | Cardiology Fellowship | University of Florida Gainesville |
| Michael Carranza, DO | Chief Medical Resident | University of Florida Jacksonville |
| Nancy Davison, DO | Private Group Practice | Denver, CO |
| Sonal Jadeja, DO | Gastroenterology Fellowship | University of Florida Jacksonville |
| Joshua Lung, DO | Pulmonary/Critical Care Fellowship | Largo Hospital |
| Maria del Mar Morales Hernandez, MD | Endocrinology Fellowship | University of Florida Gainesville |
| Hamel Patel, DO | Baptist Hospital Medicine | Jacksonville, FL |
| Rhumit Patel, DO | Baptist Hospital Medicine | Jacksonville, FL |
| Jose Rivas Rios, MD | Cardiology Fellowship | University of Florida Jacksonville |
| Patrisha Shelley, DO | Chief Medical Resident | University of Florida Jacksonville |
| Jorge Verdecia, MD | Infectious Diseases Fellowship | University of Florida Jacksonville |
| Firas Warda, MD | Endocrinology Fellowship | University of Florida Jacksonville |
| Unnati Wardan, DO | Baptist Hospital Medicine | Jacksonville, FL |

DEPARTMENT RESEARCH
ACADEMIC YEAR 2020 (7/19 - 6/20)

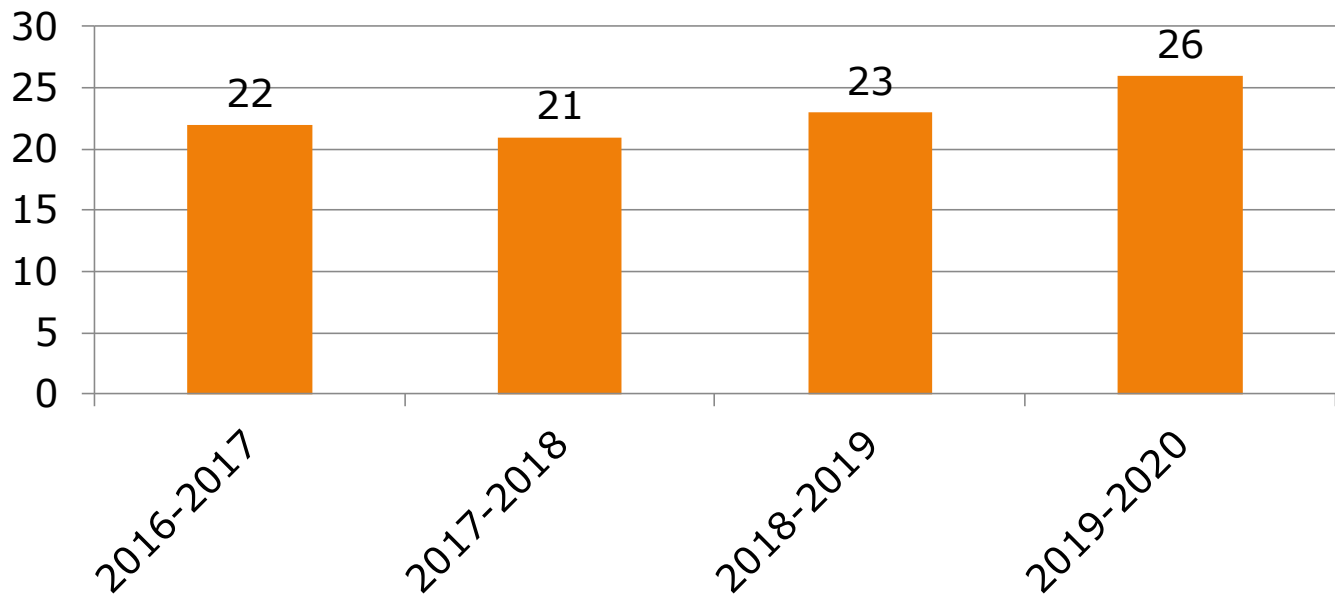
The faculty in the Department of Medicine continue to obtain research awards and train future investigators; an important aspect of the University of Florida College of Medicine-Jacksonville’s mission. Trends in external funding for fiscal year 2019-2020 and three prior years are shown in **Figure 1**.

Total Grant Revenue

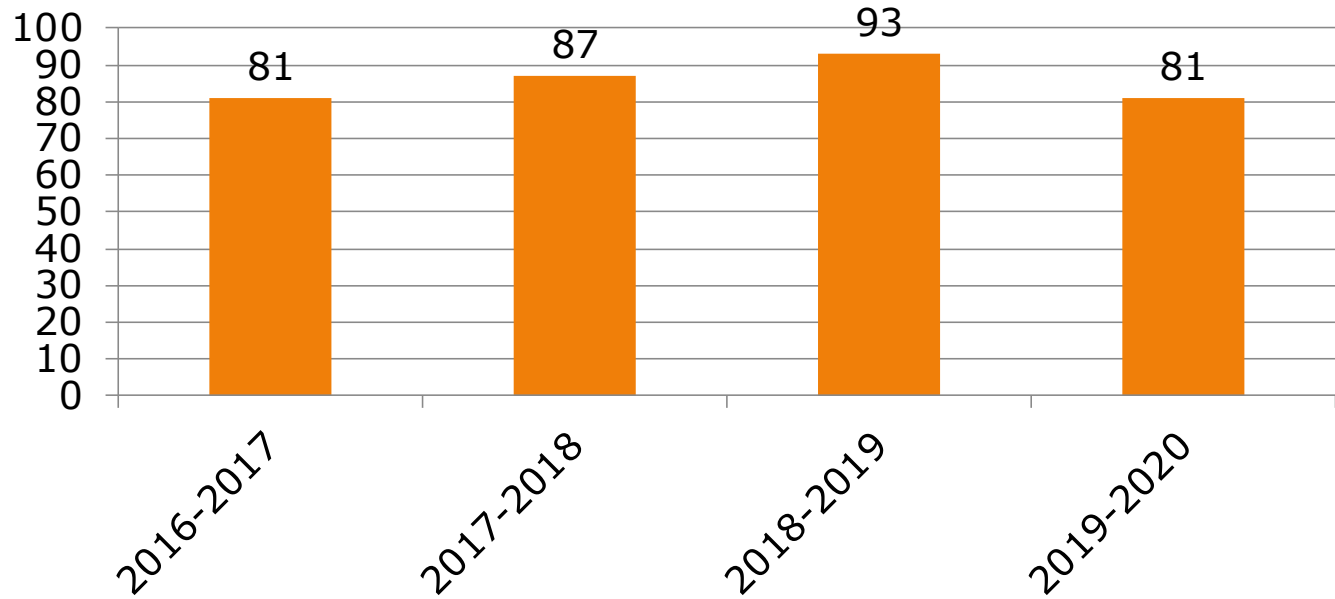


External funding from federal, state, industry, foundation and other sources decreased 31% this fiscal year compared to last. This occurred even though there was an increase in the number of funded investigators, from 23 investigators last fiscal year to 26 investigators this fiscal year (**Figure 2**). However, the number of funded projects declined from 93 last fiscal year to 81 this fiscal year (**Figure 3**).

Funded Investigators



Funded Projects



Several faculty members in the Department of Medicine have basic/translational science projects in the Medical Research Building. **Michael Haas, Ph.D.**, (Endocrinology) is investigating molecular mechanisms that regulate expression of genes involved in cholesterol transport and the integrated stress response in human coronary artery endothelial cells. **Kent Wehmeier, M.D.**, (Endocrinology) is investigating the effects of nicotine on cellular stress in smokers and in human coronary endothelial cells and studying apoptosis in osteocytes. **Charles Heilig, M.D.**, and **Yongxin Gao, M.D.**, (Nephrology and Hypertension) are examining the regulation of glucose transporter 1 expression by mechano-growth factor as well as examining the role of glucose transporters in liver cancer.

Residents and sub-specialty fellows in the Department of Medicine are assigned a mentor and participate in basic, translational, quality improvement research, epidemiological, or clinical research. At the Celebration of Resident and Fellow Education and Research Awards, residents **Dr. Taylor Palfrey, M.D.**, received the Rosilie O. Saffos Outstanding Resident Teacher Award and **Dr. Khadeeja Esmail, M.D.**, received the Edward Jelks Outstanding Resident Clinician Award. Resident **Dr. Belinda Bajric, M.D.**, was nominated for the Edward Jelks Outstanding Resident Clinician Award. Resident **Dr. Maria Del Mar Morales Hernandez, M.D.**, was nominated for the Rosilie O. Saffos Outstanding Resident Teacher Award and resident **Dr. Jose Rivas Rios, M.D.**, was nominated for the Louis S. Russo Award for Outstanding Professionalism in Medicine. Resident **Dr. Maria Del Mar Morales Hernandez, M.D.**, won the Clinical Vignette Poster Presentation.

DIVISION OF CARDIOLOGY
ACADEMIC YEAR 2020 (7/19 - 6/20)

Highlights

- Started the COPE clinic for CHF patients with two ARNP's.
- Improved post-op care for CT surgery patients with the addition of 2 ARNP's in the CVICU, covering 7 days a week, 7A-7P.
- Increased volume for 3rd year in a row in Structural Heart Program.
- Increased CT surgery volume
- Added 2nd CT surgeon, in training most of FY 20. Will have full privileges in FY 21
- Added EP nurse practitioner
- Improved clinical operations with North practice with addition of 2 experienced ARNP's, who rotate inpatient and outpatient service
- Had 1st Annual Valvar Heart Symposium at Sawgrass Marriott, coordinated by Dr. Pineda
- Added fellowship moonlighting program at North hospital
- With COVID 19 Pandemic started Telemedicine program. Had 4th highest number of Telemedicine visits for UF Jax practices.
- Partnership with UF Family Practice at Crossroads to see cardiology patients once a month in their office.

Education: The fellowships programs remain competitive. We had a very successful match filling all 6 positions with top tier candidates in our general fellowship program. Our fellows had an exceptional year for scholarly activities acceptance into major regional and national venues. Several projects have been accepted to venues such as; The American College of Cardiology, Society of interventional Cardiology, The Heart Failure Society among others. Many of these projects have been presented virtually while others await final determination of presentation platform given COVID 19. Our fellows will also be actively participating with several projects on Research Day. We continue to successfully place graduates interested in more advanced training into highly competitive subspecialty programs nationwide. Our post doc/OPS research fellowship has expanded and are integrated with the clinical and translations aspects of the Cardiovascular Research program and partake in other educational activities within the Division of Cardiology.

The following continue to take place and provide a robust platform for learning and academic discussion. These and most of our didactic and academic exchanges changed to virtual participation in view of the COVID19 pandemic the week of March 16.

- Monday Morning Report - Mandatory meeting for all fellows to discuss important, challenging cases that present to CCU over the weekend or preceding week.
- Updated core curriculum lectures on every cardiology discipline reviewed twice yearly by Didactic Curriculum Committee
- Goals and objectives for every clinical and nonclinical rotation by program year level
- Ongoing participation in Cardiology Journal Club
- Board review/ in-training exam review sessions now increased to 2-3 a month
- Ongoing participation on Wellness/Well-Being initiatives for all faculty and fellows. As part of our wellness initiative a "Music for the soul of health care workers" afternoon concert recently took place virtually with piano students from a local music school performing for cardiology fellows and faculty.
- Guest lecture faculty participating in our weekly didactic conference sessions
 - o Adult Congenital Heart Disease series with Dr. Brandon Kuebler (Wolfson/UF – Jacksonville)
 - o Pulmonary series with Dr. Seeram (UF – Jax)
 - o Advance imaging series with Dr. Goppireddy (UF-Jax)
 - o Dr. Brian Shapiro and Dr. Anita Wokhlu (Mayo) (UF – Gainesville) offer a supplemental

- role for ad-hoc lectures in advanced cardiac imaging
 - o Advance heart failure series with Dr. Parag Patel (Mayo) and Drs. Juan Aranda, Juan Vilaro or his designee (UF – Gainesville)
- Hemodynamic simulation programs twice per year
- Transthoracic and Transesophageal Echo simulation program via CESAr sim lab for first year fellows
- General Cardiology fellows develop quality assessment and improvement protocols and present them at research conferences
- General Cardiology fellows participate in a variety of research opportunities in the division and present their work at research day
- General fellows continue to actively participate in EKG, Echo, EP, Valvular and Cath conferences

The following initiatives have taken place and are resulting in positive results:

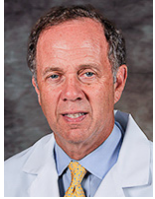
- Heart Failure Journal Club. One - to- two Tuesdays a month, heart failure specific journals are presented and discussed by CV fellows and/or IM residents with keen interest in cardiology
- Specific Morbidity and Mortality on challenging/ controversial topics presented with extensive participation of faculty and mandatory participation of fellows
- In conjunction with the UF-Jax Radiology Department, a cardiac CT MRI rotation has been developed under the guidance and teaching of Dr. Goppreddy. A multimodality rotation that encompasses CT, MRI, exposure to PET, SPECT and echo makes the bulk of this rotation
- Up to the onset of the COVID19 pandemic, Cardiology Grand Round series with invited internal, national and/or international experts were taking place 3-4 a year. We plan to continue this in a virtual fashion and adjust as needed.
- Diversity and Inclusion topics, promoted and initiated by the Women's Heart Program and Cardiology Division in partnership with the UFHSC Jacksonville Inclusion Equity and Diversity Council began taking place on February 2020 with Dr Sharonne Hayes from Mayo Minnesota presenting. Topics of this nature are planned for the future
- Opportunities to obtain CME credit through Cardiology Grand Rounds and Cath Conferences
- Developing opportunity for Clinical Cardiac Electrophysiology Boot Camp

Research: Our faculty continues to excel in research, scholarly production and participation in national and international scientific sessions. We have approximately 50 ongoing studies, which range from basic/translational research to large scale clinical trials in various areas of cardiovascular disease. These include investigator initiated as well as sponsored studies. We have published approximately 50 peer-reviewed manuscripts, 1 book chapter, numerous abstracts and presentations at local, national and international meetings. We currently hold leadership positions in most major cardiovascular societies and editorial positions in many major cardiovascular journals. We continue to receive consistently increasing extramural funding. Our research staff has also expanded to meet the demands of our growing research operations following our recent relocation to a new cardiovascular research building which hosts a state-of-the-art thrombosis research laboratory, patient waiting area, clinical visit rooms, and offices for research staff.

LISTING OF FACULTY MEMBERS

**Dominick Angiolillo, M.D. Ph.D., Professor**

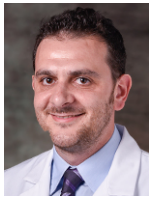
| | |
|--------------------------------|---|
| Medical School | The Catholic University of the Sacred Heart Medical School, Italy |
| Professional Education – Ph.D. | The Catholic University of the Sacred Heart Medical School, Italy |
| Internship/residency | The Catholic University of the Sacred Heart Medical School, Italy |
| Subspecialty training | San Carlos University Hospital, Madrid Spain |

**Theodore Bass, M.D., Professor and Division Chief**

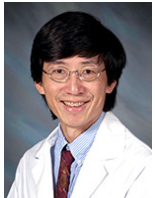
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|-----------------------|-------------------|
| Medical School | Brown University |
| Internship/residency | Mayo Clinic |
| Subspecialty training | Boston University |

**John Catanzaro, M.D., Assistant Professor**

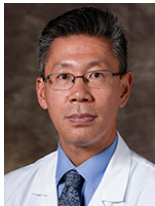
| | |
|-----------------------|---|
| Medical School | State University of New York |
| Internship/residency | North Shore University Hospital |
| Subspecialty training | North Shore University Hospital |
| Subspecialty training | The John Hopkins Hospital – Cardiac Electrophysiology |

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| Medical School | University of Modena and Reggio Emilia, Modena, Italy |
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|-----------------------|-----------------------------|
| Medical School | Washington University |
| Internship/residency | Thomas Jefferson University |
| Subspecialty training | Thomas Jefferson University |

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| | |
|-----------------------|---|
| Medical School | Tufts University School of Medicine – Boston, MA |
| Internship/residency | St. Elizabeth's Medical Center – Boston, MA/ University of MA Medical Center-Worcester, MA |
| Subspecialty training | Dartmouth-Hitchcock Medical Center – Lebanon, NH |

**Alan Miller, M.D., Professor**

| | |
|--------------------------------|---------------------------------|
| Medical School | University of Pittsburgh |
| Internship/residency | Mount Sinai |
| Internship/residency | George Washington University |
| Subspecialty training and year | Cleveland Metropolitan Hospital |

**Robert Percy, M.D., Associate Professor**

| | |
|-----------------------|--|
| Medical School | University of Mississippi |
| Internship/residency | University of Mississippi |
| Subspecialty training | Jacksonville Health Education Programs |
| Subspecialty training | Mass General Hospital – Cardiac Rehabilitation |
| Subspecialty training | Joslin Clinic – Diabetes |

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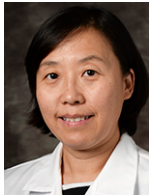
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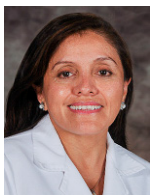
Medical School Ben Gurion University, Israel
 Internship/residency Lenox Hill Hospital
 Subspecialty training Lenox Hill Hospital – Cardiovascular Disease
 Subspecialty training William Beaumont Hospital – Interventional Cardiology

**Jialin Su, M.D., Ph.D., Assistant Professor**

Medical School Peking Union Medical College/Tsinghua University, Beijing, China
 Professional Education – Ph.D. Peking Union Medical College/Tsinghua University, Beijing, China
 Internship/residency North Shore-Long Island Jewish Health System
 Subspecialty training Rhode Island Hospital/Brown University
 Subspecialty training Beth Israel Deaconess Medical Center - Electrophysiology

**Siva Suryadevara, M.D., Assistant Professor**

Medical School University of the West Indies
 Internship/residency University of Florida College of Medicine-Jacksonville
 Subspecialty training University of Florida College of Medicine-Jacksonville

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 Internship/residency Columbia Presbyterian Medical Center
 Subspecialty training Boston University/Mount Sinai Hospital

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Medical School University of Chicago
 Internship/residency Tufts University
 Subspecialty training Harvard Medical School

PUBLICATIONS

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Suffredini JM, Rutland J, Akpunonu P, Baum R, **Catanzaro J**, **Elayi CS**. Flecainide Toxicity Resulting in Pacemaker Latency and Intermittent Failure to Capture. *Am J Case Rep*. 2019 Aug 30;20:1279-1283. doi: 10.12659/AJCR.916370. PMID:31467262.

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Aaron Richardson, DO; Andres Martinez, DO, Shreya Ghetiya, MD, Emil Missov, MD, PhD, Robert Percy, MD, Srinivasan Sattiraju, MD. *Serratia marcescens* Endocarditis with Perivalvular Abscess Presenting as Atrioventricular Block. *Case Reports in Infectious Diseases* 2020.

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Penny K-Etherton, Kristina S. Petersen, **Gladys Velarde**, Neal D. Barnard, Michael Miller, Emilio Ros, James H. O'Keefe, Kim Williams, et al. Barriers, Opportunities, and Challenges in Addressing Disparities in Diet-Related Cardiovascular Disease in the United States Originally published 23 Mar 2020 <https://doi.org/10.1161/JAHA.119.014433> *Journal of the American Heart Association*. 2020;9:e014433

Pujan Patel, Sebastian Mikulic, Sandra Sheffield, Catarina Canha, **Gladys Velarde**. Heerfordt Syndrome Manifesting as Cardiac Sarcoidosis *JACC* 2020 March 75(11)265, doi:10.1016/S0735-1097(20)33280-0 http://www.onlinejacc.org/content/75/11_Supplement_1/2653

Richardson, A., Omar, M., Velarde, G., Percy, R. Right Atrial Appendage Thrombus as a Result of Atrial Fibrillation. *JACC* 2020 March;75(11):2870, doi:10.1016/S0735-1097(20)33497-5, http://www.onlinejacc.org/content/75/11_Supplement_1/2870

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Book chapters:

Chang Hoon Lee, **Dominick J Angiolillo**. Platelet physiology and pharmacology – relevant considerations for patient care. In Sorin Brenner (ed): *Dual Antiplatelet Therapy for Coronary and Peripheral Arterial Disease*. First Edition. Elsevier, 2020.

CLINICAL ACTIVITIES

| Outpatient Activity | AY 19/20 |
|----------------------------|-----------------|
| Physician clinic visits | 19,758 |
| Cardiac ultrasounds | 28,193 |
| Cardiac nuclear studies | 1520 |
| EKGs | 23403 |
| Stress tests | 2137 |
| Heart caths | 2251 |
| EP procedures | 619 |
| Cardiac rehab visits | 2258 |
| Mitraclip | 16 |
| Watchman | 35 |
| TAVR/TEVR | 76 |

CONTRACTS AND GRANTS

| Principal Investigator | Study Title | Project Period | Sponsor | Award Amount |
|-------------------------------|---|-----------------------|------------------------------|---------------------|
| Angiolillo, D | Impact of the PCSK9 inhibitor evolocumab on the pharmacodynamics effects of clopidogrel in patients with atherosclerotic | 2017-2020 | Amgen | \$543,126 |
| Angiolillo, D | Impact of chronic kidney disease on the pharmacodynamics and pharmacokinetic effects of ticagrelor in patients/diabetes | 2016-2019 | Astra Zeneca | \$402,544 |
| Angiolillo, D | Pharmacodynamic effects of low-dose rivaroxaban in combination with antiplatelet therapies in patients with coronary and peripheral artery disease manifestations | 2018-2020 | Janssen | \$342,046.80 |
| Angiolillo, D | Switching from standard of care dual antiplatelet treatment (DAPT) regimens with aspirin plus a P2Y12 inhibitor to dual pathway inhibition (DPI) with low-dose rivaroxaban in adjunct to aspirin in patients with coronary artery disease: The Switching Anti-Platelet and Anti-Coagulant Therapy (SWAP-AC) | 2019-2021 | Janssen | \$335,367.57 |
| Angiolillo, D | Impact of DNA methylation in candidate genes on reduced CYP2C19 metabolic activity and increased P2Y12 activity in coronary artery disease patients with type 2 diabetes mellitus patients and impaired renal function | 2020-2021 | Scott R Mackenzie Foundation | \$250,000 |

DIVISION OF ENDOCRINOLOGY, DIABETES AND METABOLISM
ACADEMIC YEAR 2020 (7/19 - 6/20)

Highlights

The Division of Endocrinology, Diabetes and Metabolism had a year of sustained change and development in all areas of the academic mission of the University of Florida. Clinically, major events included expansion of clinical services geographically and provision to a broader audience including the growth of virtual visits as a way to provide care to patients during the COVID-19 crisis. Academically, the Division submitted multiple manuscripts, delivered multiple scholarly presentations and contributed to the university's educational mission.

Patient care: The Division provided inpatient and outpatient consultation on site and virtually at the University of Florida College of Medicine-Jacksonville campuses and Emerson Medical Plaza to faculty of the university and referring physicians in the northeast Florida/southern Georgia region and beyond. The UF North campus extends endocrinology services to a broader area of the First Coast. The core clinical faculty of the Division include Dr. Joe Chegade, Dr. Marilu Jurado, Dr. Gunjan Gandhi, Dr. Arshag Mooradian, Dr. Leena Shahla and Dr. Kent Wehmeier. The Division addressed clinical endocrinology problems related to hypothalamus, pituitary, thyroid, pancreas, adrenal and sex hormone gland dysfunction as well as gender identity. Patients with metabolic disorders including diabetes mellitus, metabolic syndrome, obesity, anorexia, hypercholesterolemia, calcium and metabolic bone diseases such as osteoporosis and vitamin D deficiency were evaluated and treated. The Division's main clinical operations occurred at UF Endocrinology and Diabetes at Emerson Medical Plaza. The number and variety of consultations continued to rise. Patients were also evaluated at the UF Health-Jacksonville Ambulatory Care Center (ACC) and at the UF Health North Hospital and Clinic primarily through the work of Dr. Gandhi and Dr. Shahla. Our faculty performed analyses of the glucose monitoring data, obtained by continuous glucose monitoring to make recommendations regarding diabetes management. Diabetes care has matured with the partnering of outpatient diabetes medical nutrition therapy with the Division of Endocrinology. Kristina Worthington, MSH, RD/N, CSSD, LD/N provides onsite education at the UF Emerson location and UF North for diabetes management, carbohydrate counting and medical nutrition therapy (MNT.) Dr. Chegade, Dr. Jurado and Dr. Shahla utilized ultrasound guidance for the evaluation of patients with thyroid nodules, parathyroid neoplasia, lymph nodes, and thyroid cancer to provide comprehensive care to patients with nodular disease of the neck.

A unique collaboration with the UF College of Medicine-Jacksonville's Department of Oral Maxillofacial Surgery, Surgery, Radiology and Pathology has enhanced the care of patients with thyroid and parathyroid disease. Through the discussion and implementation of diagnostic and treatment protocols, the care of these patients has been standardized to better evaluate outcomes and focus on patients with more challenging management issues.

The care of patients with pituitary or sellar tumors was also advanced through the collaboration of the departments of neurosurgery, radiology, pathology and otolaryngology. Through weekly conferences, challenging cases were brought to the group to provide unique diagnostic and treatment approaches for individuals with rare neoplasms and unique presentations.

On the inpatient service, more patients were served by endocrinology consultation. The Division also provided evaluation and management strategies in the areas of diabetes, thyroid disease and osteoporosis to UF Health Jacksonville and UF Health North to facilitate optimal care of patients with these conditions.

Leading the charge for better inpatient diabetes care, the Division's own Dr. Gandhi chaired the Diabetes Steering Committee. This multidisciplinary body comes together to discuss common issues in glucose control. Strategies to improve outcomes are discussed and implemented.

Education: The Endocrinology fellowship continues to maintain its ACGME accreditation, under the direction of Program Director, Dr. Gunjan Gandhi and Dr. Kent Wehmeier as Associate Program Director. Dr. Russell Fung and Dr. Angela Richter joined the Division in July 2019. Dr. Poonam Kapadia and Dr. Shrina Parekh have been exceptional and productive additions to the Division and completed their fellowships June 30, 2020. All four fellows have made substantive contributions to the clinical care, education and research mission of the Division. In resident physician education, Dr. Wehmeier continued as rotation director of relevant educational programs for Endocrinology. He is the primary liaison between the Core Residency Program and the Division, and is a member of the Resident Education Committee. The faculty members and fellows participate in teaching rounds in the clinic and in conferences to enhance the experience of the rotating residents.

In the educational program of the University of Florida, Dr. Chehade, Dr. Gandhi, Dr. Mooradian, Dr. Jurado, Dr. Shahla and Dr. Wehmeier precept trainees at UF clinics in Endocrinology and coordinate lectures for the University of Florida medical students and residents in medicine. The Division of Endocrinology Grand Rounds provides an avenue for speakers at UF Jacksonville and Gainesville to share knowledge and enhance collaboration between various disciplines at UF. Dr. Chehade, Dr. Gandhi, Dr. Haas, Dr. Jurado, Dr. Mooradian and Dr. Wehmeier were chosen to receive the 2020 University of Florida-College of Medicine's Exemplary Teachers Award under Education.

Research: Strides have been made in making clinical research more attractive to industry and to potential subjects. Under the guidance of Division members, the awards and numbers of subjects have continued to grow. Additional research staff has been added to grow the Division's efforts. The research has involved the use of devices to control diabetes mellitus, pharmacologic agents for glucose management, diabetic neuropathy, non-alcoholic fatty liver disease and metabolic bone disease. Dr. Joe Chehade is also spearheading a clinical trial in the new Jacksonville Aging Studies Center or JAX-ASCENT. This site will serve as a hub for aging research in the Northeast Florida/Southeast Georgia area. The basic science research lab, under the direction of Dr. Michael Haas, continues to be a place of learning and scholarly activity. Investigations regarding the effects of multiple hormones on the expression of the most important protein in the high density lipoprotein (HDL) particle, Apo AI, and the involvement of endoplasmic reticulum (ER) stress and oxidative stress in coronary artery disease continue to reveal critical insights.

Service: Leading the charge for better inpatient diabetes care, the Division's Dr. Gandhi chairs the Diabetes Steering Committee. This multidisciplinary body comes together to discuss common issues in glucose control. Strategies to improve outcomes are discussed and implemented.

Philanthropy: The Division members have been the recipients of many gifts. In the spirit of giving back, the members have contributed their time, effort and resources to the underserved and to children in Jacksonville, as well as overseas.

LISTING OF FACULTY MEMBERS

**Joe Chehade, M.D., Professor**

Medical School
Internship/residency
Subspecialty training

St. Joseph University School of Medicine, Beirut-Lebanon
Staten Island University Hospital
Saint Louis University School of Medicine

**Gunjan Gandhi, M.D., MSc, Associate Professor**

Medical School
Internship/residency
Subspecialty training
Post-Graduate Training

Maharaja Sayajirao University, Baroda India
University of Illinois College of Medicine
Mayo Clinic, Rochester
Mayo Clinic, Rochester – Masters in Biomedical Research

**Michael Haas, Ph.D., Research Associate Professor**

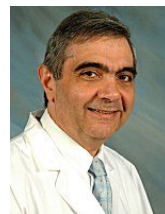
Graduate School
Post-Graduate Training

University of Nebraska Medical Center
McArdle Laboratory for Cancer Research

**Marilu M. Jurado Flores, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

Catholic University of Santiago De Guayaquil, Guayas Ecuador
University of Miami Hospital and Clinics
University of Florida College of Medicine-Jacksonville

**Arshag D. Mooradian, M.D., Professor and Chairman, Department of Medicine**

Medical School
Internship/residency
Subspecialty training

American University of Beirut
American University of Beirut
University of Minnesota

**Leena Shahla, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

Al-Baath University, Homs Syria
New York Medical College
University of Massachusetts Medical School

**Kent Wehmeier, M.D., Professor and Division Chief**

Medical School
Internship/residency
Subspecialty training

University of Missouri-Columbia
Barnes-Jewish Hospital, Washington University
Saint Louis University School of Medicine

PUBLICATIONS

Feghaly JM, **Mooradian AD**. The rise and fall “ing” of the HDL hypothesis. *Drugs* 80:353-362, 2020.

Haas, M.J., Feng, V., Gonzales, K., Onstead-Haas, L., and **Mooradian, A.D.** High-throughput analysis identifying drugs that reduce oxidative and ER stress in human coronary artery endothelial cells. *European Journal of Pharmacology* 879:173119, 2020.

Haas MJ, Jurado-Flores M, Hammoud R, Feng V, Gonzales K, Onstead-Haas L, **Mooradian AD**. Inhibition of pro-inflammatory cytokine secretion by select antioxidants in human coronary artery endothelial cells. *International Journal for Vitamin and Nutrition Research*. 90:103-112, 2020.

Mooradian AD, Stone R, Palacio C, Stewart E. Collaborative care plans reduce subspecialty consults: The experience from a safety net hospital. *The American Journal of Managed Care* 26(4):177-180. 2020.

Genuth SM, Vlachos H, Brooks MM, Bantle JP, Chaitman BR, Green J, Kelsey SF, King SB 3rd, McBane R, Sako EY, Schneider DJ, Steffes M, Frye RL; BARI 2D Study Group. (**Mooradian A** site PI). BARI 2D: A reanalysis focusing on cardiovascular events. *Mayo Clin Proc*. 94:2249-2262, 2019.

Haas, M.J., Jurado-Flores, M., Hammoud, R., Feng, V., Gonzales, K., Onstead-Haas, L., and **Mooradian, A.D.** The effects of known cardioprotective drugs on pro-inflammatory cytokine secretion from human coronary artery endothelial cells. *American Journal of Therapeutics* 26:e321-e332, 2019.

Mooradian AD. In search for an alternative to sugar to reduce obesity. *International Journal for Vitamin and Nutrition Research*. 89:113-117, 2019.

Mooradian AD. Evidence based cardiovascular risk management in diabetes. *American Journal of Cardiovascular Drugs* 19:439-448, 2019.

Mooradian, AD. Diabetes and atherogenic dyslipidemia. In: *The Diabetes Textbook. Clinical Principles, Patient Management and Public Health Issues*. SJ. Rodriguez-Saldana (ed). Springer Nature, Switzerland AG 2019; 587-596.

Mooradian AD. Age –related resistance to thyroid hormone action. *Drugs and Aging* 36:1007-1014, 2019.

Siddique A, Murphy TP, Naeem SS, Siddiqui EU, Pencina KM, McEnteggart GE, Sellke FW, Dworkin LD and (**Mooradian A** site PI). Relationship of mildly increased albuminuria and coronary artery revascularization outcomes in patients with diabetes. *Catheter Cardiovasc Interv*. 93: E217-E224, 2019.

Abstracts/Presentations:

Kalidas, P., Parekh, S., Bikkina, P., Landicho, A.M., Onstead-Haas, L., **Haas, M.J.**, and **Mooradian, A.D.** Differential effects of COX2 inhibitors on the unfolded protein response in primary human coronary artery endothelial cells. Poster presentation. Endocrine Society, San Francisco, CA, 2020.

Kalidas, P., Parekh, S., Richter, A., Landicho, A.M., , Feng, V., Bikkina, P., Gonzales, K., Onstead-Haas, L., **Haas, M.J.**, and **Mooradian, A.D.** TFEF-mediated inhibition of endoplasmic reticulum stress in human coronary artery endothelial cells. Poster presentation. Endocrine Society, San Francisco, CA, 2020.

Parekh, S., Kalidas, P., Richter, A., **Haas, M.J.**, Wong, N.C.W., and **Mooradian, A.D.** Induction of apolipoprotein A-I gene expression by the rare sugar allulose. Poster presentation. Endocrine Society, San Francisco, CA, 2020.

Richter, A., Parekh, S., Kalidas, P., **Haas, M.J.**, and **Mooradian, A.D.** Endocannabinoids induce endoplasmic reticulum stress in hepatocytes and human coronary artery endothelial cells. Poster presentation. Endocrine Society, San Francisco, CA, 2020.

CLINICAL ACTIVITIES

| | AY 19/20 |
|------------------------------|-----------------|
| Inpatient Activity | |
| Initial Inpatient Encounters | 717 |
| Outpatient Activity | |
| Clinic Visits | 10,346 |
| Thyroid Biopsies | 238 |

GRANTS AND CONTRACTS

| Principal Investigator | Study Title | Project Period | Sponsor | Award Amount |
|-------------------------------|---|-----------------------|----------------|---------------------|
| Wehmeier, K | A Phase 2b, Multicenter, Multinational, Double-blind, Dose-finding Study, incorporating an open label sub-study, in Adult Patients with Type I, III or IV Osteogenesis Imperfecta Treated with setrusumab (BPS804) | 05/2017 - 12/2021 | Mereo | \$32,591.97 |
| Cehade, C | A Phase III, Double-blind, Randomized, Placebo-Controlled, Multi-center Study To Assess The Safety and Efficacy of VM202 in Subjects with Painful Diabetic Peripheral Neuropathy | 11/2016 -12/2019 | Viomed | \$178,696 |
| Cehade, C | Testosterone Replacement therapy for Assessment of long-term Vascular Events and efficacy ResponSE in hypogonadal men (TRAVERSE) Study | 08/2018 - 08/2023 | AbbVie | \$484,455.00 |
| Cehade, C | A Randomized, Double-blind, Placebo-controlled, Parallel-group, Multicenter Study to Demonstrate the Effects of Sotagliflozin on Cardiovascular and Renal Events in Patients with Type 2 Diabetes, Cardiovascular Risk Factors and Moderately Impaired Renal Function | 04/2018 - 04/2022 | Sanofi | \$44,558.14 |

DIVISION OF GASTROENTEROLOGY
ACADEMIC YEAR 2020 (7/19 – 6/20)

Highlights

Gastroenterology Division has built an inter-disciplinary team of faculty, advanced practitioners and nurses. Our faculty members were Dr. James Scolapio, Dr. Faisal Bukeirat, Dr. Ron Schey, Dr. Bruno Ribeiro, Dr. Neha Agrawal, Dr. Robert Bass, Dr. Paul Sievert and Dr. Peter Ghali. The allied health professionals included Victor (Pat) Nasrallah, Rhonda Broughton, Mei Lyn Lamar, as well as our nurse William Ecker. Our Division responded well to challenging clinical environments due to the pandemic. Working closely with our surgical colleagues, we continue to have one of the premier upper GI tract disease centers in the state. Our endoscopic ultrasound activity has more than doubled and we have added new diagnostic tools such as EndoFLIP and Digitrapper, which have made us a referral destination for a wide catchment area. Our hepatology program has also more than doubled in activity with a much closer integration with the Gainesville transplant group. Our Fellowship program remains strong and is academically productive. We would like to thank every team member for going the extra mile to take care of our patients and each other.

Patient care: The patient care aspect of our academic mission is pursued at the following locations: UF Health North with general GI clinics and endoscopy, Emerson campus, where we provide general gastroenterology, inflammatory bowel disease, and hepatology services, Towers clinic with general gastroenterology and hepatology clinics, UF Beaches with general gastroenterology clinic. Endoscopy is performed at three clinical sites: UF Health Downtown, UF Health North, and Jacksonville Beach Surgery Center. Inpatient consult services are provided at UF Health Downtown as well as UF Health North. Our mission is to have timely patient access to top quality patient care with specific attention to reduced patient wait times and increased access to high-quality gastroenterology and hepatology services in any of our locations.

Education: Dr. Ghali as the Program Director of our fellowship training program has maintained a high quality of trainees' satisfaction based on the 2019-2020 ACGME survey which showed that our program overall fellow satisfaction is above the national average with 100% evaluating the program as positive or very positive. 100% of the gastroenterology faculty also evaluated the program as excellent or good. Our fellows' board pass rate has consistently been 100%. Our priority remains recruiting gastroenterology fellows with a proven track record of clinical research as well as commitment to superb patient care, interpersonal skills and professionalism. We continue to be very active at the Jacksonville Gut Club quarterly meetings. This educational venue is very important to our division's presence in the community. We have reacted to the COVID-19 pandemic. We discussed the challenges with each other, with our fellows, and with our staff, and we are all involved in improving the processes to promote physician well-being.

Research: All faculty members have been productive in scholarly activities over the past academic year. The Division produced twenty-one peer-reviewed published manuscripts, ten abstract presentations, and four book chapters. The GI faculty have given multiple presentations at local, regional, national, and international meetings. The Division now has eleven funded research protocols and was able to generate over \$700,000 in grants last year.

LISTING OF FACULTY MEMBERS

**Neha Agrawal, M.D., Assistant Professor**

Medical School
Internship/residency
Internship/residency
Subspecialty training

Motilal Nehru Medical College, Allahabad University,
Allahabad, India
John H. Stroger, Jr. Hospital, Chicago, IL
University of Illinois College of Medicine, Urbana, IL
Temple University Hospital, Philadelphia, PA

**Robert Bass, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

Medical College of Georgia, Augusta, AL
University of South Alabama, Mobile, AL
University of Florida – Jacksonville

**Faisal Bukeirat, M.D., Associate Professor**

Medical School
Internship/residency
Subspecialty training

University of Jordan, Amman, Jordan
New York Medical College, Bronx NY
Albany Medical College, Albany NY

**Peter Ghali, M.D., Professor and Division Chief, Gastroenterology**

Medical School
Internship/residency
Subspecialty training
Subspecialty training

McGill University, Montreal, Canada
McGill University, Montreal, Canada
McGill University, Montreal, Canada
Mayo Graduate School of Medicine – Rochester, MN

**Ron Schey, M.D., Professor**

Medical School
Internship/residency
Subspecialty training

Sackler School of Medicine, Tel-Aviv University, Israel
Meir Medical Center, Kfar Saba, Israel
Wolfson Medical Center, Holon, Israel

**Bruno De Souza Ribeiro, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training
Subspecialty training

Santa Casa de Sao Paulo, Brazil
Federal University of Sao Paulo, Brazil
Sirio Libanes Hospital, Sao Paulo, Brazil
California Pacific Medical Center, San Francisco, CA

**James Scolapio, M.D., Professor and Associate Chair**

Medical School
Internship/residency
Subspecialty training

Marshall University School of Medicine, Huntington, WV
Mayo Graduate School of Medicine – Rochester, MN
Mayo Graduate School of Medicine – Rochester, MN

**Paul Sievert, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

University of Miami
Medical College of Virginia
University of Florida – Jacksonville

PUBLICATIONS

Fialho A, Fialho A, Nassri A, Muenyi V, Malespin M, Shen B, De Melo SW Jr. Helicobacter pylori is Associated with Less Fistulizing, Strictureing, and Active Colitis in Crohn's Disease Patients. *Cureus*. 2019 Nov 25;11(11):e6226.

Nassri AB, Fialho A, Fialho A, Muftah M, Ribeiro B, Scolapio J, Malespin M, De Melo S. Novel Inflammatory-Nutritional Biomarkers as Predictors of Histological Activity in Crohn's Disease. *Clinical Laboratory*. In Press.

Nassri AB, Habib J, Skarupa D, Ribeiro B. Aortic Graft Erosion into the Duodenum Presenting as Recurrent Bacteremia Diagnosed on Endoscopy. *American College of Gastroenterology Case Reports Journal*. October 2019.

Nassri R, Muftah A, Muftah M, **Nassri AB, AlKhasawneh A.** Gastric Ulcer as Presentation of HIV-associated Kaposi Sarcoma and Resolution with HAART Therapy. *American College of Gastroenterology Case Reports Journal*. October 2019.

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CLINICAL ACTIVITIES

| Inpatient Activity | AY 19/20 |
|---|-----------------|
| Initial IP Encounters | 1,559 |
| UF Health Jacksonville Inpatient Procedures | 786 |
| Baptist Beaches Inpatient Procedures | 20 |
| UF North Inpatient Procedures | 400 |
| | |
| Outpatient Activity | |
| Clinic Visits | 12,314 |
| UF Health Jacksonville Outpatient Procedures | 3,742 |
| Baptist Beaches Outpatient Procedures | 698 |
| Jacksonville Beach Surgery Center Outpatient Procedures | 323 |
| Jacksonville Surgery Center | 1,008 |
| UF North Outpatient Procedures | 2,491 |

CONTRACTS AND GRANTS

| Local Principal Investigator | Study Title | Sponsor | Project Period | Total Award |
|------------------------------|--|--|----------------------|-------------|
| Peter Ghali | HCV TARGET - Hepatitis C Therapeutic Registry and Research Network- A Longitudinal, Observational Study | University of Florida (David Nelson, PI) | 3/22/2016 - present | \$115,955 |
| Peter Ghali | TARGET-NASH - A 5-year Longitudinal Observational Study of Patients with Nonalcoholic Fatty Liver Disease or Nonalcoholic Steatohepatitis | Target PharmaSolutions, Inc. | 1/8/2017 - present | \$71,151 |
| Peter Ghali | TARGET HCC - A 5-year Longitudinal Observational Study of the Natural History and Management of Patients with Hepatocellular Carcinoma | Target PharmaSolutions, Inc. | 1/3/2017 - present | \$12,576 |
| Peter Ghali | TARGET IBD - A 5-year Longitudinal Observational Study of Patients Undergoing Therapy for Inflammatory Bowel Disease | Target PharmaSolutions, Inc. | 10/10/2017 - present | \$43,422 |
| Peter Ghali | PRIORITIZE - A Pragmatic, Randomized Study Of Oral Regimens for Hepatitis C: Transforming Decision---Making for Patients, Providers, and Stakeholders | University of Florida (Giuseppe Morelli, PI) | 3/16/2017 - present | \$65,660 |
| Peter Ghali | REGENERATE - Randomized Global Phase 3 Study to Evaluate the Impact on NASH with Fibrosis of Obeticholic Acid Treatment | Intercept Pharmaceuticals, Inc. | 12/14/2016 - present | \$225,518 |
| Peter Ghali | STELLAR-3 - A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Efficacy of Selonsertib in Subjects with Nonalcoholic Steatohepatitis (NASH) and Bridging (F3) Fibrosis | Gilead Sciences | 6/28/2017 - present | \$67,229 |
| Peter Ghali | REVERSE -A Phase 3, Double-Blind, Randomized, Placebo-Controlled, Multicenter Study to Evaluate the Efficacy and Safety of Obeticholic Acid in Subjects with Compensated Cirrhosis due to Nonalcoholic Steatohepatitis | Intercept Pharmaceuticals, Inc. | 7/19/18- present | \$91,676 |
| Peter Ghali | ELEVATE UC 52- A Phase 3, Randomized, Double-Blind, Placebo-Controlled, 52-Week Study to Assess the Efficacy and Safety of Etrasimod in Subjects with Moderately to Severely Active Ulcerative Colitis | Arena Pharmaceuticals, Inc. | 12/17/2019- present | \$6,114 |
| Peter Ghali | ELEVATE UC OLE- An Open-Label Extension Study of Etrasimod in Subjects with Moderately to Severely Active Ulcerative Colitis | Arena Pharmaceuticals, Inc. | 2/21/2020- present | \$6,114 |
| Ron Schey | Pizzicato- A Phase 2A, Double-blind, Randomized, Placebo-Controlled, Parallel Group Study To Evaluate the Efficacy and Safety of Oral PF-06651600 and PF-06700841 as Induction and Open Label Extension Treatment in Subjects with Moderate to Severe Crohn's Disease | Pfizer, Inc | 9/13/2019- present | \$4,550 |

DIVISION OF GENERAL INTERNAL MEDICINE
ACADEMIC YEAR 2020 (7/19- 6/20)

Highlights

The division continues a robust inpatient and outpatient practice and is an integral part of the educational experience for the Internal Medicine residency.

Patient Care: The Division of General Internal Medicine is comprised of 19 members, including the two chief medical residents and two PhDs. All full time clinical faculty are certified by the American Board of Internal Medicine. The clinical care provided by members of the division include the provision of inpatient care as the attending for the four inpatient teaching services and an inpatient Internal Medicine consultation service, including medical evaluation of patients admitted to the inpatient Psychiatry service. Drs. Brittany Lyons and Win Aung, who oversee the medicine consultation service, are trained in bedside ultrasound guided procedures. The procedural service is available to other services to ensure the provision of safe care.

The group has a busy outpatient practice offering services at three locations: the Ambulatory Care Center (ACC) at UF Health Jacksonville, the UF Internal Medicine Clinic at Emerson Multispecialty Clinic and the General Internal Medicine Clinic at UF Health North. Based on patient satisfaction, the physicians in the group are considered excellent clinicians. In addition to the excellent physicians in the group, the outpatient primary care practices are certified as NCQA Level 3 Patient Centered Medical Homes. Our outpatient practices offer two unique clinical initiatives. The *PAIDD* (Program for Adults with Intellectual and Developmental Disability) clinic established in 2013 provides primary care services and care coordination to adults with special needs who are unable to manage their health independently. *PAIDD* providers, Drs. Edwards and Jacob, provide care to almost 200 adults with intellectual and developmental disabilities. RN care coordination of these patients has been supported by a grant from the Jess Ball DuPont Foundation. The second unique clinical initiative is acupuncture services offered by Dr. Alan Halperin. Alternative treatment options for management of pain is critical. Dr. Halperin's acupuncture clinic offers a viable alternative.

Our four inpatient teaching services are supervised by two teaching hospitalists, Drs. Aung and Reddy and other members of the Division of General Internal Medicine. The four teaching services provide an excellent educational experience for the internal medicine residents as well as residents from anesthesiology, psychiatry preliminary residents in neurology. Medical students from the University of Florida College of Medicine and other non-UF medical schools have an opportunity to work alongside an excellent group of teaching faculty and residents. As part of the inpatient wards and consultation service, residents and medical students learn the use of bedside ultrasound to assist in diagnosis and in performance of procedures. Drs. Lyons and Aung have prepared a comprehensive curriculum using simulation training to assess their skills and pre- and post-tests to assess the knowledge. During the coronavirus pandemic, the teaching services cohorted patients with COVID 19 on two services to reduce faculty and resident exposure risk and ensure consistency with treatment. The GIM faculty were instrumental in developing order sets and treatment algorithms for patients admitted with SARS-CoV-2

The division has two faculty members with training in hospice and palliative care: Dr. Ravindra Maharaj and Dr. Win Aung. Dr. Maharaj also holds a certificate of added qualifications in geriatrics. Along with a growing outpatient geriatric practice and palliative care practice, Dr. Maharaj offers hospice and palliative care services to our inpatient services. He is providing a much needed service, as well as education, on the role of palliative care and hospice in the care of our patients. During the pandemic, the services of hospice and palliative care have been critical as physicians, patients and families made difficult decisions.

Education: As noted above, resident and student education are woven into the division's practice. The GIM faculty provide supervision of residents on the four general internal medicine inpatient teaching

services, the inpatient medicine consultation and procedural service and geriatrics and hospice and palliative care. In addition, the members of the division provide faculty supervision and mentoring of all categorical medicine residents in their outpatient continuity practice and urgent care clinics. Members of the division participate in morning report, morbidity and mortality conferences and present at the noon conference core curriculum series held daily, as well as a Friday afternoon board review.

Dr. Jeff House serves as Program Director for the Internal Medicine Residency Program and Drs. Elisa Sottile and Carlos Palacio are the Associate Program Directors for the training program. The GME leadership mentors residents in their scholarly work and each year, the number of posters, abstracts, presentations and manuscripts increase. Dr. House has developed a unique rotational and curricular experience for the PGY2 residents that immerse them in quality and safety. This educational experience is well received by the residents and has resulted in quality improvement projects and scholarly activity. Dr. Sottile also serves as the Clerkship Director for medical students from Gainesville who rotate on the Internal Medicine service (inpatient and outpatient).

Drs. Brittany Lyons and Win Aung have developed a bedside ultrasound curriculum for residents as well as a weeklong immersion in a bedside ultrasound course for the interns in the residency program.

Drs. Masri and Sottile serve as peer reviewers for the University of Florida College of Medicine-Jacksonville faculty development program. Dr. Sottile also serves as a facilitator and is the co-developer of the "Residents and Fellows as Teachers"-a 6-8 hour intradepartmental seminar offered each year at the University of Florida College of Medicine-Jacksonville to first year residents and fellows.

The faculty in the division serve as program directors, speakers and workshop facilitators for the annual Update in Internal Medicine. Due to the coronavirus pandemic this excellent CME conference was cancelled but will return in the AY21. It is an excellent opportunity for local and regional healthcare providers to obtain CME and learn the most current information on interesting and hot topics.

The division serves as an integral part of the education program for 3rd and 4th year medical students, as well as physician assistant students, from the University of Florida. Members of the division serve as preceptors for students in both the inpatient setting as well as in our outpatient practice. Student evaluations of their experience are excellent and are reflected in the number of exemplary teacher awards given to faculty within the division each year.

Quality: Dr. Jeff House coordinates Quality Improvement (QI) for the Department and for the training program. Dr. House is the Associate Chair of Medicine for Quality and Education. He is the Chair of the Medical Performance Improvement Committee (MPIC) and is a member of the Performance Improvement Committee-the institutional body that oversees quality and safety for the UF Health Jacksonville campus. Dr. Jacob serves on MPIC as the GIM representative. The division has focused on readmissions and patient satisfaction this past year. Due to previous work by QI teams in collaboration with case management, GIM readmission rates have dramatically improved. The division continues to address timeliness of discharges and through put, as well as identify opportunities to continue to improve our patient satisfaction. In the outpatient setting, Dr. Palacio coordinates a number of quality improvement projects with the residents to look at access, show rates and whether preventive care and screening guidelines are being met. The use of quality dashboards in EPIC has allowed our practice to improve its cancer screening and immunizations and to reduce care gaps in our patient population. The GME leadership has worked with our EMR team to develop a resident dashboard that will be launched in July. This dashboard will be used as an education tool for residents to review their personal performance on various quality metrics and social determinants of health as well as review their performance compared to their peers in continuity clinics.

Research: Research in the division varies among the faculty. The development of the bedside ultrasound curriculum and the quality improvement/patient safety block rotation have led to poster presentations and other opportunities for educational scholarship. Many of the faculty mentor residents in their research projects and have assisted them in preparing and submitting case reports to the American Federation of Medical Research. The division continues to be productive as demonstrated by the publication list below.

Future Directions: To meet the primary care needs of Jacksonville, we expanded our practice to North Jacksonville and our practice continues to grow there, meeting the needs of this sector of Jacksonville and Duval and Nassau Counties. Our practice at the Southside Multispecialty Clinic also continues to grow and receives referrals from our specialty colleagues who practice at that location as well. The PAIDD clinic for adults with intellectual and developmental disabilities receives referrals from Northeast Florida because of the unique service provided to our special needs population.

The division, along with our residents will have the opportunity to develop performance improvement initiatives that will lead to improved patient care and safety and result in the preparation of scholarly works. The faculty and residents developed a handoff tool that is used for patients who are transitioning from the critical care unit to the floor to ensure that a safe transition occurs. And as noted above, a resident quality metric and social determinants of health dashboard has been launched and will serve as an opportunity for educational and quality research.

LISTING OF FACULTY MEMBERS



Win Aung, M.D. Assistant Professor

Medical School
Internship/residency

Institute of Medicine, Myanmar
Lutheran Medical Center



Lori A. Bilello, Ph.D., M.B.A., M.H.S., Assistant Professor

PhD Health Services Research
Master of Business Administration
Master of Health Science

University of Florida
University of Florida
University of Florida



Linda Edwards, M.D., Associate Professor, Associate Chair and Division Chief

Medical School
Internship/residency

East Carolina University
Jacksonville Health Education Programs



Malcolm Foster, M.D., Professor Emeritus

Medical School
Internship/residency
Subspecialty training

Bowman Gray School of Medicine
University of Florida, Gainesville
University of Florida, Gainesville (Infectious Disease)



Shiva Gautam, Ph.D., Professor

PhD Statistics

University of Texas at Dallas

**Maria Gutierrez, M.D., Assistant Professor**

Medical School
Internship/residency

Ross University School of Medicine
University of Florida, Jacksonville

**Alan Halperin, M.D., Professor**

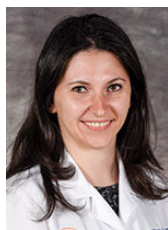
Medical School
Internship/residency

University of Kansas
University of Wisconsin

**Jeffrey House, D.O., Professor and Associate Chair**

Medical School
Internship/residency

Nova Southeastern College of Osteopathic Medicine
University of Florida – Jacksonville

**Carmen Isache, M.D., Associate Professor**

Medical School
Internship/residency
Subspecialty training

Gr. T. Popa University of Medicine and Pharmacy
SUNY Downstate Medical Center
University of Florida, Jacksonville (Infectious Disease)

**Rafik Jacob, M.D., Assistant Professor**

Medical School
Internship/residency

Ain Shams University
Rhode Island Hospital/Brown University

**Brittany Lyons, D.O., Assistant Professor**

Medical School
Internship/residency

Philadelphia College of Osteopathic Medicine
University of Florida, Jacksonville

**Ravindra Maharaj, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

The University of the West Indies, Trinidad
University of Florida
University of Miami (Geriatrics)
University of Wisconsin (Hospice and Palliative Medicine)

**Ghania Masri, M.D., Associate Professor**

Medical School
Internship
Residency

Damascus University, Syria
Cleveland Clinic Foundation
Case Western Reserve University

**Carlos Palacio, M.D., M.P.H., Professor**

Medical School
Internship/residency
Post-graduate training

University of Miami
University of Florida, Jacksonville
University of North Florida (MPH, Master of Public Health)

**Pramod Reddy, M.D., Associate Professor**

Medical School
Internship/residency

Sri Dev Raj Urs Medical College, India
Stony Brook University Hospital

**Elisa Sottile, M.D., Assistant Professor**

Medical School
Internship/residency

Temple University School of Medicine
University of Pennsylvania

PUBLICATIONS

Manuscripts:

Edwards L, Martin FC, **Lyons B**. Screening, detection, and intervention for domestic violence/intimate partner violence. Duval County Medical Society [Internet]. 2020 Mar. Available from: <https://www.dcmsonline.org/CME>.

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Sottile, E. (2019) [Book Review: *Attending: Medicine, Mindfulness and Humanity*](#). *SGIM Forum* 42 (6): 7, 12-13.

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Ganji M, Ruiz J, Kogler W, Lung J, Hernandez J, **Isache C**. Methicillin-resistant *Staphylococcus aureus* pericarditis causing cardiac tamponade. *IDCases*. 2019 Aug 1; 18:e00613. doi: 10.1016/j.idcr.2019.e00613. eCollection 2019. PMID: 3145310

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Verdecia J, Hernandez J, Izzo C, **Sottile E**, **Isache C**. Methicillin-resistant *Staphylococcus aureus* (MRSA) sepsis complicated by warm autoimmune haemolytic anaemia secondary to antimicrobial therapy. *BMJ Case Rep*. 2019 Aug 28; 12(8):e229114. doi: 10.1136/bcr-2018-229114. PMID: 31466968

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Gopinath A, Mubeen A, Baskovich B, Mohammed I, Makary R, Hoy ES, Dagan R, Carmen Smotherman C, **Gautam S**, Fernandes RP, Bunnell AM, Pargousis P, Alkhasawneh A. "Prognostic Significance of Venous Invasion in Node-Negative Head and Neck Squamous Cell Carcinoma." *Journal of Oral Pathology and Medicine*. 2020; 49:150-155.

Makker K, Cortez J, Jha K, Shah S, Nandula P, Lowrie D, Smotherman C, **Gautam S**, Hudak M. "Comparison of Extubation Success Using Non-invasive Positive Pressure Ventilation versus Neurally Adjusted Ventilatory Assist" *The Journal of Perinatology*. 2020; 1-9.

Paige B, **Isache C**, McCarter Y, Smotherman C, **Gautam S**, Jankowski C. "Clinical Impact of a Pharmacist-led Antimicrobial Stewardship Initiative Evaluating Patients with *Clostridioides difficile* Colitis. *Journal of Investigative Medicine*. 2020; 68:888-892.

Jurawan R, Mahabir K, Verma S, Iswarawaka S, **Maharaj R**. The practice of "Jharay" and its relevance in modern medical practice. myT&TMA The official newsletter of the Trinidad and Tobago Medical Association; The Trinidad and Tobago Medical Association July/Aug 2019:2

Topiramate causing type II renal tubular acidosis: A case and review of the mechanism. Chahin M, Oye M, Jadeja S, Sanders K, **Reddy P**. Clin Case Rep. 18 Feb 2020.

Neurosarcoidosis manifesting as panhypopituitarism. Oye M, Chahin M, Krishnan N, **Reddy P**. Clin Case Rep. 2019;00:1-4.

Diagnosis and Management of Adrenal Insufficiency in Hospitalized Patients. **Reddy P**. Am J Ther. 2019 Aug 30. PMID: 31567142.

Case Report: Omar MB, Kogler W, Maharaj S, **Aung W**. Renal artery stenosis presenting as preeclampsia; Clinical Hypertension (2020) 26:6; <https://doi.org/10.1186/s40885-020-00140-4>

Author opinion in electronic newsletter:

Jurawan R, Mahabir K, Verma S, Iswarawaka S, **Maharaj R**. The practice of "Jharay" and its relevance in modern medical practice. myT&TMA The official newsletter of the Trinidad and Tobago Medical Association; The Trinidad and Tobago Medical Association, July/Aug 2019:2

Presentations

Edwards L. Intimate Partner Violence: the Healthcare Providers Role in Recognition and Referral. ACOG District XII 2016 Annual District Meeting; August 4, 2019

Maharaj R. Integrating Geriatric principles for Elderly Surgical Patients. Department of Surgery Grand Rounds; UFCOM-J Jacksonville, FL., November 2019.

Maharaj R. How to Talk to Older Folks: A practical look at common communication topics seen when assisting elderly patients. Department of Medicine Grand Rounds; UF, Jacksonville FL., May 13th, 2020.

Haddad J, Haddah C, **Bilello L**, **Masri G**, Cox D, Food for Health: Evaluation of a Fruit and Vegetable Prescription Program at a Community Health Clinic. Poster presentation American Academy of Ambulatory Care Nursing 45th Annual Conference; Chicago, April 2020

Haddad J, Haddah C, **Bilello L**, **Masri G**, Cox D. Food for Health: Evaluation of a Fruit and Vegetable Prescription Program at a Community Health Clinic. Poster presentation. INTED2020, The 14th annual International Technology, Education and Development Conference; Valencia, Spain, March 2020.

Kogler W, Canha C, AS Stack and **Isache C**. Lupus nephritis in a young male presenting with arthritis. AFMR 2020 Southern regional Meeting; New Orleans, LA, Feb 2020.

Frank M, Conigliaro J, Leung T, **Sottile E**, Sgro G, Rao S. Writing High-Quality Perspectives, Commentary and Opinion Pieces: A pathway for academic success through publication in Forum and other journals. {Conference workshop}. Society of General Internal Medicine, National Meeting, Birmingham, AL. May 6-9 2020
<https://connect.sгим.org/annualmeeting/attend/covid-19-updates> (conference canceled)

Fasen M, Maharaj S, **Maharaj R**. Bullous Dermatitis as an Unusual Presentation of Multiple Myeloma- Oral Presentation at : AFMR Southern Regional Meeting, Feb 2020.

Haddad-Lacle J, Burwell A, Haddad C, Scuderi C, **Bilello L**. *Poster*. Implementation of a protocol for transitional care management across a diverse academic health system and its impact on hospital re-admission rate. Society of Teachers of Family Medicine. Phoenix, AZ. Dec 6, 2019 - Dec 6, 2019.

HONORS AND AWARDS

| | |
|---------------------|--|
| Linda Edwards, MD | Hanson Professorship of Medicine University of Florida Exemplary Teacher Award 2020 |
| Maria Gutierrez, MD | University of Florida Exemplary Teacher Award 2020 |
| Alan Halperin, MD | University of Florida Exemplary Teacher Award 2020 |
| Jeff House, DO | University of Florida Exemplary Teacher Award 2020 |
| Carmen Isache, MD | University of Florida Exemplary Teacher Award 2020 |
| Rafik Jacob, MD | University of Florida Exemplary Teacher Award 2020 |
| Brittany Lyons, DO | University of Florida Exemplary Teacher Award 2020 |
| Ghania Masri, MD | University of Florida Exemplary Teacher Award 2020 |
| Elisa Sottile, MD | University of Florida Exemplary Teacher Award 2020 |

CLINICAL ACTIVITIES

| | AY 19/20 |
|---------------------------------|-----------------|
| Inpatient Activity | |
| Numbers of Inpatient Admissions | 4,286 |
| Outpatient Activity | |
| Clinic Visits | 13,015 |

CONTRACTS AND GRANTS

| Investigator | Study Title | Project Period | Sponsor | Award Amount |
|-------------------------------|--|-------------------------|--|---------------------|
| Bilello, L (Evaluation PI) | Evaluation of the Systems of Care Initiative (SOCI) Expansion Program. | 9/2015 – 09/2019 | SAMHSA | \$66,658 |
| Bilello, L (Co-I) | Health-Smart for Weight Loss | 1/2018 – 12/2020 | PCORI Health | \$78,000 |
| Bilello, L (Evaluation PI) | Project Save Lives | 11/2017 – Present | City of Jacksonville | \$58,000 |
| Bilello, L (Evaluation PI) | Health-Smart Holistic Health and Wellness Centers | 11/2018 – 10/2019 | Humana Foundation | \$900,000 |
| Edwards, L (Co-PI) | Evaluate, Develop, and Implement Medication Safety Measures Using Medication Error Claim Reporting Systems and Medical Records | 2016 - Present | Martin A. Smith Patient Safety and Quality Award | \$18,700 |
| Gautam, S (Co-I) | Health-Smart for Weight Loss | 10/2017 – 9/2020 | PCORI Health | \$2.9M |
| Gautam, S (Co-I) | JAX-ASCENT | 9/15/2017- 5/31/2022 | NIH | \$3.7M |

| Title | Recipient | Amount |
|----------------------|---------------------|---------------|
| Hanson Professorship | Linda Edwards, M.D. | 12,000.00 |

DIVISION OF HEMATOLOGY AND MEDICAL ONCOLOGY
ACADEMIC YEAR 2020 (7/19 – 6/20)

Highlights

The Division of Hematology and Medical Oncology continued its clinical and academic missions during this past year. The division provides inpatient clinical consultation in hematology and medical oncology and maintains a thriving ACGME accredited oncology fellowship training program. Our division hosted and organized our third annual Breast Health Awareness Expo which expanded off campus into the community as planned. We increased our community support by actively participating in the American Cancer Society's; Making Strides against Breast Cancer Walk on Team "UF Health in the Pink Zone". We were able to successfully participate and host a Yoga event to help fundraise for breast cancer awareness month. We welcomed our newest faculty member and division chief; W JR Quan, from Loma Linda University. We look forward to a new, exciting year of clinical expertise, leadership and mentorship displayed in the expansion of our division along disease-oriented specialization.

Patient care: Our division continues to increase access to our inpatient and subspecialty experts in evaluation and treatment of hematologic malignancies. We provide both outpatient and inpatient consultative services for hematology and oncology at the downtown campus, which is also the location of the only sickle cell clinic in Jacksonville, Florida. Patient care is readily convenient at our many locations such as the UF Health Jacksonville campus, Ambulatory Care Center, and UF Health North campus. To provide the best quality of patient care, collaboration with multiple specialties through mechanisms including multi-disciplinary tumor conferences are ongoing. Our division has added a palliative care outpatient clinic twice per week that emphasizes alleviation of cancer-related pain and other symptoms. Our faculty members collaborate closely with the Proton Therapy Institute, the Department of Surgery, and Gynecologic Oncology. Faculty actively educate with patient education sheet facts; these are distributed by the physicians on different cancers. Our division continues to host the Oncology Pharma Expo quarterly. An Oncology support group has been created and hosted by the division's initial nurse navigator.

Education: The prior medical oncology fellowship became accredited by the ACGME as a new three-year combined hematology/oncology fellowship leading to dual board eligibility. The didactic curriculum has expanded to include twenty Hematology core lectures. Reviews for the fellows' in-service training exam were added along with several lectures including chemotherapy toxicity and 4 comprehensive breast lectures.

Our faculty offers a consult experience in hematology and oncology to residents at all training levels. This affords an opportunity for a measure of autonomy in order to build their skills and confidence going forward, while ensuring that prompt diagnostic and therapeutic decisions are made in the patients' best interest. Faculty development sessions including those on small group teaching, teaching under time constraints and others are essential to the educational growth of our division.

The division continues to support the Internal Medicine Residency Program through didactic approaches during night float rotation, Internal Medicine resident's noon conference, and Grand Rounds. The hematology oncology fellowship has rotations at Mayo Clinic Jacksonville (Bone Marrow Transplant, benign hematology). Fellows are active participants at a weekly lecture series which encourages and develops great teaching skills. Our monthly Journal Club is ongoing and generates discussion on various topics and the latest developments in hematology and oncology.

Research: The Division of Hematology and Medical Oncology continues to develop additional industry sponsored trials. The division is currently enrolling and actively recruiting for the Discovery Study as well as the Polaris study. Clinical studies in myeloproliferative diseases and lymphoma are anticipated in the coming academic year. IRB approval was given for a prostate cancer study that faculty and fellows have begun working on. Collaboration with UF Proton Therapy research trials continues. Our division continues to provide academic support to residents through mentorship in research endeavors.

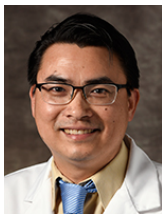
LISTING OF FACULTY MEMBERS



W JR Quan, M.D., Professor and Division Chief

Medical School
Internship/residency
Subspecialty training

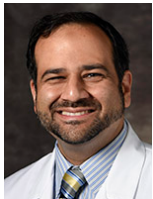
Ohio State University College of Medicine, Columbus
Medical College of Ohio, Toledo
Medical College of Ohio, Toledo/University of Southern California



Dat Pham, M.D., Associate Professor

Medical School
Internship/residency
Subspecialty training

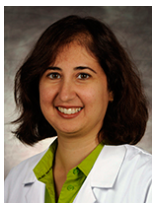
University of Florida, Gainesville
University of Florida, Gainesville
University of Florida, Gainesville



Marwan Shaikh, M.D., Assistant Professor

Medical School
Internship/residency
Subspecialty training

University of Toledo
University of Florida College of Medicine-Jacksonville
West Virginia University School of Medicine



Lara Zuberi, M.D., Assistant Professor

Medical School
Internship/residency
Subspecialty training

Aga Khan University, Pakistan
Henry Ford Hospital
Henry Ford Hospital

PUBLICATIONS

Chahin M, Chhatrala H, Krishnan N, Brow D, **Zuberi L**. Triple-Negative Lobular Breast Cancer Causing Hydronephrosis. J Investig Med High Impact Case Rep. 2020 Jan-Dec; 8:2324709620905954. PMID: 32043897

Hoppe BS, Nichols RC, Flampouri S, Li Z, Morris CG, **Pham DC**, Mohindra P, Hartsell W, Mohammed N, Chon BH, Simone CB 2nd. Hypofractionated proton therapy with concurrent chemotherapy for locally advanced non-small cell lung cancer: A Phase I trial from the University of Florida and Proton Collaborative Group. Int J Radiat Oncol Biol Phys. 2020 Apr 3. pii: S0360-3016(20)30938-X. PMID: 32251754.

Matthews-Hew T, **Zuberi L**. PARP Inhibitor Olaparib Use in a BRCA1-Positive Patient With Metastatic Triple-Negative Breast Cancer, Without the Initial Use of Platinum-Based Chemotherapy, Showing Significant Rapid Near Resolution of Large Liver Metastasis While Patient Experienced Gout-Like Symptoms. J Investig Med High Impact Case Rep. 2019 Jan-Dec; 7:23247096184.

Wieland J, Hoppe BS, Rausch-Osian SM, King JC, Sierra A, Hiemenz JW, Bradley J, **Pham DC**, Jones LM, Yeung AR, Hopper K, Mendenhall NP, Hitchcock KE. Survivor and Caregiver Expectations and Preferences Regarding Lung Cancer Treatment. *Int J Part Ther*. 2019 Fall;6(2):42-49. Epub 2019 Nov 26. PMID: 31998820

Hoppe BS, Bates JE, Mendenhall NP, Morris CG, Louis D, Ho MW, Hoppe RT, **Shaikh M**, Li Z, Flampouri S. The Meaningless Meaning of Mean Heart Dose in Mediastinal Lymphoma in the Modern Radiation Therapy Era. 2019 Oct 2. *Pract Radiat Oncol* S1879-8500(19)30279-6. PMID: 31586483

Chahin M, Krishnan N, Chhatrala H, **Shaikh M**. A 5-Fluorouracil-Induced Hyperammonemic Encephalopathy Challenged with Capecitabine. *Oncol Med. Case Rep* 2020 Jan 31; 2020:4216752. PMID: 32082663

Abstracts:

Hoppe B, Nichols CR, **Pham D**, Mohindra P, et al. UF-Pcg Phase II Study of Hypofractionated Proton Therapy with Concurrent Chemotherapy for Stage II-III NSCLC. ASTRO 2019 Annual Meeting.

Quan W, Gutierrez LI, Quan K, Quan FM: Staccato Pulse Interleukin-2 (IL-2) in Metastatic Melanoma (MM) Previously Treated with Checkpoint Inhibitors (CPI). *J Clin Oncol* 37, 2019 (suppl; abstr e21022)

Quan W, Gutierrez LI, Quan FM: Substitution of Single Dose Intravenous Methylprednisolone (MP) for Oral Prednisone (Pred) in RCHOP in Intermediate Grade Non-Hodgkin's Lymphoma (NHL). *J Clin Oncol* 37, 2019 (suppl; abstr e19019)

Quan W, Kadakia M, Gutierrez LI, Quan FM: Bendamustine (B) + Methylprednisolone (MP) and Peg-filgrastim (F) in Indolent Lymphoma. *J Clin Oncol* 38, 2020 (suppl; abstr e20069)

Mailhot R, Patel S, Holtzman A, Lockney N, Lynch J, Slayton W, Liang X, **Quan W**, Hoppe B, Mendenhall N: Identifying mean heart dose thresholds for proton therapy acceptability in mediastinal unfavorable early-stage Hodgkin Disease. *Int J Radiat Oncol Biol Phys* (in press)

Presentations:

Matthews-Hew T, **Zuberi L**. PARP Inhibitor Olaparib Use in a BRCA1-Positive Patient With Metastatic Triple-Negative Breast Cancer, Without the Initial Use of Platinum-Based Chemotherapy, Showing Significant Rapid Near Resolution of Large Liver Metastasis While Patient Experienced Gout-Like Symptoms. Poster Presentation Annual UF/Mayo Breast conference. December 2019.

Matthews-Hew T, Hew J, Carranza M, Chhatrala H, **Pham D**. Hepatic Tuberculosis Revealed Following Treatment of Acute Promyelocytic Leukemia. Poster presentation. Mayo Clinic Annual Review July 2019.

Matthews-Hew T, **Pham D**, Chhatrala H. The Impact of race and insurance status on survival of prostate cancer patients. Abstract presentation accepted for presentation ASCO GU February 2019.

Chhatrala H, **Pham DC**. Sickle cell patient presenting with hyperhemolysis secondary to cold agglutinin syndrome. The 29th Annual Mayo Clinic Hematology Oncology Reviews, Annual Fellows Research Abstract and Poster Presentation, Amelia Islands, FL. Aug 1, 2019.

Chhatrala H, Matthews-Hew T, **Pham DC**. Copper deficiency presenting as pancytopenia with severe anemia. The 29th Annual Mayo Clinic Hematology Oncology Reviews, Annual Fellows Research Abstract and Poster Presentation, Amelia Islands, FL. Aug 1, 2019.

Bhinder P, Matthews-Hew T, **Pham DC**. Multimodality therapy in the management of a challenging case of a super-giant basal cell carcinoma. The 29th Annual Mayo Clinic Hematology Oncology Reviews, Annual Fellows Research Abstract and Poster Presentation, Amelia Islands, FL. Aug 1, 2019.

Bhinder P, **Pham DC**. ALK-positive adenocarcinoma of the lung presenting as an ovarian mass. The 29th Annual Mayo Clinic Hematology Oncology Reviews, Annual Fellows Research Abstract and Poster Presentation, Amelia Islands, FL. Aug 1, 2019.

HONORS AND AWARDS

Dat Pham, MD
Lara Zuberi, MD

University of Florida Exemplary Teacher Award 2020
University of Florida Exemplary Teacher Award 2020

CLINICAL ACTIVITIES

| | AY 19/20 |
|--------------------------------|-----------------|
| Inpatient Activity | |
| Number of Inpatient Admissions | 1,226 |
| | |
| Outpatient Activity | |
| Clinic Visits | 6,448 |

CONTRACTS AND GRANTS

| Investigator | Study Title | Project Period | Sponsor | Award Amount |
|---------------------|---|-----------------------|------------------------------|---------------------|
| Marwan, S. | The Benign Hematology Care Program | 5/6/2019-5/5/2020 | The Coastal Blood Foundation | \$125,000 |
| Pham, D. | The Collection of Whole Blood and other Human Bio-fluid Specimens from Subjects Clinically Diagnosed with Cancer and/or other Related Disease | 6/17/2016-6/16/2021 | Discovery Life Sciences | \$40,487.00 |
| Zuberi, L. | Palbociclib in Hormone Receptor Positive Advanced Breast Cancer: A Prospective Multicenter Non-interventional Study | 2/26/2018-2/26/2023 | Pfizer, Inc. | N/A |

DIVISION OF INFECTIOUS DISEASE
ACADEMIC YEAR 2020 (7/19 - 6/20)

Highlights

The Division of Infectious Diseases continued its clinical and academic missions during this past year. The division is comprised of 4 university based infectious diseases consultants at the primary teaching hospital, all of whom are dually boarded in Internal Medicine and Infectious Diseases, with an additional 11 ancillary faculty composed of board certified infectious diseases physicians, doctoral level microbiologists and doctoral level pharmacists who are actively involved in various aspects of the fellowship training program.

The division provided inpatient clinical Infectious Diseases consultation at UF Health Hospitals/Jacksonville and North; Hospital Infection Prevention and Control and Antimicrobial Stewardship direction at UF Health Hospitals and outpatient infectious diseases consultation at the downtown Ambulatory Care Clinic, Emerson Campus Clinic and North Campus clinic. The division maintained an ACGME accredited Infectious Diseases fellowship training program and actively participated in the training of internal medicine residents and medical students in inpatient and outpatient infectious diseases.

Members of the division also assumed administrative and teaching roles in the ID division and IM activities. Dr. Sands is the university ID Division Chief, ID Fellowship Associate Program Director and the Medical Director of Hospital Infection Prevention and Control for UF Health Hospital. Dr. Isache is the Chair of the Antimicrobial Stewardship Programs for UF Health Hospital and the ID Fellowship Program Director.

Patient care:

University ID Division inpatient and hospital based activity: The division provided full time inpatient infectious diseases consultation throughout the UF Health Jacksonville Hospital system. During the 2019-2020 academic year, the division performed over 900 inpatient infectious diseases consultations with over 1200 subsequent follow-up visits at UF Health Hospital.

Outpatient services: The division offered outpatient ID consultation by referral at the Emerson and the Ambulatory Care Clinic (ACC) subspecialty clinics. During the 2019-2020 academic year, there were over 450 outpatient ID visits for HIV/AIDS and general Infectious Diseases diagnoses including chronic osteomyelitis and MRSA infection.

Education:

Grand Rounds: The division actively participates in presenting at Medical Grand Rounds and as regular attendees. This academic year faculty gave presentations at two UF Grand Rounds.

Fellowship Training: The division maintained an ACGME accredited fellowship in Infectious Diseases with one fellow for each of the two clinical fellowship years. The fellowship program has been reaccredited on a five-year cycle. The fellowship training is unique in offering two months of clinical microbiology, dedicated research time, two months of training in solid organ transplantation ID at the Mayo Clinic, one month training in Pediatric Infectious Diseases at Wolfson Children's Hospital and one month as a junior ID faculty consultant in the UF Health MICU, in addition to 14 months experience as the consultant and teaching fellow on the general ID inpatient consult service at UF Health.

Our Infectious Diseases fellows continue to distinguish themselves through maintaining a 100% ID boards pass rate and achieving successful employment as full time Infectious Diseases consultants in a variety of metropolitan areas, including San Francisco, Atlanta, Baton Rouge, Tampa, Orlando and here in Jacksonville.

Resident Training: Faculty provided a 12 lecture series ID core curriculum conference for the residents; ID consultation teaching and clinical rounds; outpatient HIV/AIDS continuity clinics; and resident ID board review sessions.

Medical Student Education: Medical students from UF Gainesville, other US sites and internationally, rotate on the infectious diseases consultative service and the outpatient ID clinics at both the ACC and Emerson campuses.

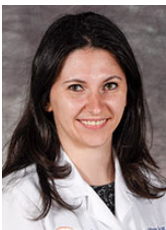
ID Division Conference Schedule: The division maintained a full conferencing schedule with topics including: core infectious diseases topics, regularly scheduled case conferences; ID board reviews; monthly journal club; HIV topical reviews; monthly TB cases and topical reviews; monthly research conferences; travel and tropical medicine conferences; transplantation ID conferences; and monthly Med/Peds ID joint conferences.

Cooperative extramural resident and fellows' training: As part of their curricula, Mayo Clinic ID fellows, UF Intensivist fellows, UF Pediatric ID fellows and UF Podiatry-Orthopedic residents rotated on the UF ID inpatient consultative service and in the HIV outpatient clinics.

Research: Dr. Sands was the principal investigator on two NIH sponsored research grants through the INSITE network; the START and Smart studies, now completed, to define the appropriate time to initiate antiviral therapy for HIV-infected patients. Post hoc analyses of the data has continued to yield valuable results and publications.

Publications and presentations this past academic year included 16 journal articles published in peer reviewed journals, three published ID monographs, 4 presentations and 3 abstracts presented at regional and national meetings.

LISTING OF FACULTY MEMBERS



Carmen Isache, M.D., Associate Professor

Medical School
Internship/residency
Subspecialty training

Gr. T. Popa University of Medicine and Pharmacy
SUNY Downstate Medical Center
University of Florida, Jacksonville (Infectious Disease)



Malleswari Ravi, M.D., Assistant Professor

Medical School
Internship/residency
Subspecialty training

NTR University of Health Sciences, India
SUNY Health Science Center, Stony Brook, NY
University of Florida, Gainesville FL



Wilfredo Sanchez, M.D., Assistant Professor

Medical School
Internship/residency
Subspecialty training

Ponce School of Medicine, Puerto Rico
University of Florida College of Medicine-Jacksonville
University of Florida College of Medicine-Jacksonville



Michael Sands, M.D., M.P.H.&T.M., Professor and Division Chief

Medical School
Internship/residency
Subspecialty training

Georgetown University, Washington, DC
St. Mary's Hospital, San Francisco, CA
Tulane University School of Public Health & Tropical
Medicine (MPH & TM)
Louisiana State University School of Medicine (Infectious
Disease)
Northwestern Memorial Hospital, Dept. of Pathology, Clinical
Microbiology Section (Clinical Microbiology)

Ancillary Teaching Faculty:

UF Health Hospital Critical Care

James D. Cury, MD
Lisa Jones, MD
Vandana Seeram, MD
Amitesh Agarwal, M.D.

UF Health Hospital, Microbiology Laboratories

Yvette McCarter, Ph.D.

UF Health Hospital, Division of Pharmacy and Antimicrobial Stewardship

Christopher Jankowski, Pharm D.

UF Health Hospital, Division of Infection Prevention and Control

Capt. Chad Nielsen, MS (Epidemiology)

Mayo Clinic – Transplantation ID

Walter Hellinger, M.D.
Julio Mendez, M.D.
Salvatore Alvarez, M.D.
Lisa Brumble, M.D.
Wendy Bosch, M.D.

Wolfson Childrens' Hospital – Pediatric ID

Nizar Maraga, MD
Ana Alvarez, M.D.
Ayesha Mirza

State of Florida Department of Health Laboratories

Sharon Crowe, B.S., M.S.

PUBLICATIONS

Manuscripts:

Bishop PA, **Isache C**, **McCarter YS**, Smotherman C, Gautam S, **Jankowski CA**. Clinical impact of a pharmacist-led antimicrobial stewardship initiative evaluating patients with *Clostridioides difficile* colitis. J Investig Med. 2020 Apr; 68(4):888-892. doi: 10.1136/jim-2019-001173. Epub 2020 Feb 16. PMID: 32066570

Ravi M. Liberation From Dialysis Dependence in a Patient With HIV-Associated Nephropathy (HIVAN) After Combined Antiretroviral Therap (cART). Case Reports in Nephrology 2020 Mar 15;2020:7294765. Doi:0.1155/2020/7294765. eCollection 2020.

Kogler W, Canha C, Makary R, Omman R, **Isache CL**. Multiple myeloma with extensive AL amyloidosis presenting as chronic diarrhea. BMJ Case Rep. 2020 Jan 8;13(1):e232934. doi: 10.1136/bcr-2019-232934. PMID: 3191906

Krishnan N, Patel B, Palfrey W, **Isache C**. Rapidly progressive necrotizing cellulitis secondary to *Candida tropicalis* infection in an immunocompromised host. *IDCases*. 2020 Jan 3;19:e00691. doi: 10.1016/j.idcr.2019.e00691. eCollection 2020. PMID: 31988847

Goglia A and **McCarter YS**. *Nocardia beijingensis*: A Case of the Underappreciated Pathogen. American Society for Clinical Pathology LabQ Clinical Laboratory 2020, American Society for Clinical Pathology Press, Chicago, IL

Maraq N and **McCarter YS**. Chronic Rash and Intermittent Fever in a 5 Year Old Girl: Can the Laboratory Help Find the Diagnosis? American Society for Clinical Pathology LabQ Clinical Laboratory 2020, American Society for Clinical Pathology Press, Chicago, IL.

Patel H, Patel B, Jadeja S, **Isache C**. Central nervous system nocardiosis masquerading as metastatic brain lesions. *IDCases*. 2019 Oct 1;18:e00652. doi: 10.1016/j.idcr.2019.e00652. eCollection 2019. PMID: 31720223

Verdecia J, Hernandez J, Izzo C, Sottile E, **Isache C**. Methicillin-resistant *Staphylococcus aureus* (MRSA) sepsis complicated by warm autoimmune haemolytic anaemia secondary to antimicrobial therapy. *BMJ Case Rep*. 2019 Aug 28;12(8):e229114. doi: 10.1136/bcr-2018-229114. PMID: 31466968

Ganji M, Ruiz J, Kogler W, Lung J, Hernandez J, **Isache C**. Methicillin-resistant *Staphylococcus aureus* pericarditis causing cardiac tamponade. *IDCases*. 2019 Aug 1;18:e00613. doi: 10.1016/j.idcr.2019.e00613. eCollection 2019. PMID: 3145310

Boatman JA, Baker JV, Emery S, Furrer H, Mushatt D, Dalibor S, Lundgren J, and Neaton JD for the INSIGHT START study group including **M. Sands**. Risk factors for low CD4+ count recovery despite viral suppression among participants initiating antiretroviral treatment with CD4+ counts > 500 cells/mm³: findings from the Strategic Timing of AntiRetroviral Treatment (START) trial. *J Acquir Immun Defic Syndr* 2019; 81:10-17 PMID: 30664075

Borges ÁH, Neuhaus J, Sharma S, Neaton JD, Henry K, Anagnostou O, Staub T, Emery S, Lundgren JD; INSIGHT SMART & START Study Groups including **M. Sands**. The effect of interrupted/deferred antiretroviral therapy on disease risk: a SMART & START combined analysis. *J Infect Dis* 2019; 219(2):254-263 PMID: 30032171

Dharan NJ1, Neuhaus J2, Rockstroh JK3, Peters L4, Gordin F5, Arenas-Pinto A6, Emerson C7, Marks K8, Hidalgo J9, Sarmiento-Castro R10, Stephan C11, Kumarasamy N12, Emery S1,13, Matthews GV1; INSIGHT START Study Group including **M. Sands**. Benefit of early versus deferred antiretroviral therapy on progression of liver fibrosis among people with HIV in the START randomized trial. *Hepatology* 2019; 69:1135-1150 PMID: 30298608

Dharan NJ et al including **M. Sands**. Benefit of early versus deferred antiretroviral therapy on progression of liver fibrosis among people with HIV in the START randomized trial. *Hepatology* 2019; 69:1135-1150. PMID: 30298608

Monographs and Book Chapters:

Mucormycosis. Palnitkar R, **Sands M**. *BMJ Point-of-Care* 2009, updated 2019; www.pointofcare.bmj.com.

Non-Cholera *Vibrio* infections. **Sands M., Isache C**. *BMJ Point-of-Care* 2009, updated 2019; www.pointofcare.bmj.com.

Hantavirus infections. **Sands M., Isache C**. *BMJ Point-of-Care* 2009, updated 2019; www.pointofcare.bmj.com

Abstracts:

Li, A, Brooks, S, **Jankowski CA**, Lyons B, Mallory N. Impact of pharmacist intervention on antibiotic prescribing for urinary tract infections in ambulatory care clinics. Florida Residency Conference Abstract. May 2020.

Piccirro S, Casapao AM, Claudio AC, **Isache C, Jankowski CA**. Comparison of acute kidney injury in patients prescribed vancomycin in combination with piperacillin-tazobactam or cefepime for diabetic foot infections. Florida Residency Conference Abstract. May 2020.

Kunz Coyne KC, Casapao AM, **Isache C**, Morales J, **McCarter YS, Jankowski CA**. Influence of antimicrobial stewardship and molecular rapid diagnostic test on antimicrobial prescribing for extended-spectrum beta-lactamase and carbapenemase-producing bacteria in bloodstream infections. Florida Residency Conference Abstract. May 2020.

Neilsen C, Rose R, Nolan DJ, **McCarter YS**, Rollini F, Lamers SL, **Sands M**. Use of Next-Generation Sequencing to Rule out Cluster of *P. aeruginosa* in a Cardiac Critical Care Unit. Abstract, Society for Healthcare Epidemiology of America 6th Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA, March 2020.

Predic M, **Neilsen C**, Buchanan S, Middlebrooks M, **Jankowski C**, **McCarter Y**, Goglia A, **Sands M**. Multidisciplinary Team Approach to Reducing *Clostridioides difficile* Hospital Acquired Infections. Submitted Abstract, Society for Healthcare Epidemiology of America 6th Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA, March 2020.

Lamers S, Nolan D, **McCarter YS**, **Neilsen C**, Rose R, Rodriguez C, Cross S. Using Whole Genome Sequencing to Improve Surveillance Measures: Case Study of MRSA in a Florida Hospital. Submitted Abstract, Society for Healthcare Epidemiology of America 6th Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA, March 2020.

Kogler W, Canha C, Stack AS, and **Isache C**. Lupus nephritis in a young male presenting with arthritis. AFMR 2020 Southern Regional Meeting, New Orleans, LA, Feb 14, 2020

Presentations:

McCarter YS. "Clinically Relevant Culture Workup" Workshop. Oral presentation at: Northern California Branch of the American Society for Microbiology 2019 Fall Conference, San Jose, CA, November 2019.

Neilsen C, **Jankowski CA**, **McCarter YS**, Gay-Eurom K, **Sands M**. Universal MRSA Decolonization to Reduce Adult ICU Infections. Poster presentation VITAL 2019: America's Essential Hospitals- Miami, FL June 21, 2019

CLINICAL ACTIVITIES

| | AY 19/20 |
|----------------------------|-----------------|
| Inpatient activity | |
| Consults | 994 |
| Outpatient activity | |
| Clinic Visits | 461 |

GRANTS AND CONTRACTS

| Principal Investigator | Study Title | Project Period | Sponsor |
|-------------------------------|---|-----------------------|----------------|
| M. Sands | Developing and assessing whole genome sequencing analysis for molecular epidemiology of MRSA infections at a Florida hospital | 7/18 – 7/21 | FoxSeq |

DIVISION OF NEPHROLOGY AND HYPERTENSION
ACADEMIC YEAR 2020 (7/19 - 6/20)

Highlights

In the 2019 - 2020 academic year, the Division of Nephrology and Hypertension continued to make headway in meeting the goals of the academic mission.

In patient care, the offsite dialysis venture with DCI at the Gateway Unit has continued to support the hemodialysis mission for UF. ARNP's Melissa Goalen and Shatura Rowe played essential roles in the care of our large outpatient dialysis population. The DCI Midtown hemodialysis patients are planned to move to the nearby DCI Gateway and LaVilla Dialysis Units later this year, while the peritoneal dialysis patients will eventually move to the LaVilla Dialysis Unit.

In education, the Nephrology fellowship progressed successfully with continuation of Simulation Trainings and off-site renal transplant rotations. The Emerson site Renal Transplant Clinic has been up and running since June of 2019 with Dr. Vishal Jaikaransingh and Dr. Pradeep Kadambi seeing patients there. Dr. Vishal Jaikaransingh took over the Associate Program Director position, and organized the fellows' Renal Physiology Course.

The joint Renal Pathology Conference with Mayo Clinic Jacksonville and Mayo Clinic Rochester continued as a successful and important piece of the educational program, as did the Transplant Rotation at Mayo Clinic Jacksonville with a core lecture series. Our annual Update in Nephrology & Hypertension CME Symposium with grant support from Dialysis Clinics Inc., was deferred in 2020 due to the COVID19 pandemic. Dr. Ronald Mars received a Faculty Teaching Award this academic year.

The Division presented Mechano-Growth Factor (MGF) and glucose transporter research work on glomerular disease at the 2019 American Society of Nephrology meeting. This work included a new invention of MGF-Transgenic mice developed to study the pathogenesis of diabetic nephropathy. In addition, translational research describing GLUT1 gene SNP's associated with heavy proteinuria in patients progressing to ESRD was reported at the 2019 ASN Meeting. Fellow case report abstracts were also a part of the 2019 ASN Meeting. The research laboratory of Dr. Charles Heilig continued with funded basic research studies into the pathogenesis of diabetic and nondiabetic glomerulosclerosis in diabetic and transgenic mouse models, with a focus on the roles of Mechano-Growth Factor (MGF) and glucose transporters. Dr. Charles Heilig had research grant funding from DCI, Inc. and a Scott R. Mackenzie Foundation Research Grant for studies of glomerulosclerosis in mice. He also mentored Dr. Irtiza Hasan for a human glomerulosclerosis study funded with a UF Dean's Grant. Dr. Ljubomir Ilic had research funding from DCI, Inc. to study glucose transporter risk genotypes in patients who progressed to ESRD. Dr. Yongxin Gao, Assistant Scientist in the Nephrology Research Laboratories, continued her collaborative research work on glucose transporters, MGF and other growth factors in diabetic and nondiabetic kidney disease. Dr. Heilig gave an invited research presentation at the 2019 Southern Salt Water & Kidney Conference.

Fellows and/or faculty attended and participated in meetings of the American Society of Nephrology, the National Kidney Foundation, and a national Home Dialysis Educational Seminar.

Patient care: The Division of Nephrology provides physician services and the medical director for two outpatient chronic dialysis units and also provides services to the inpatient UF Health Jacksonville acute hemodialysis unit. Dialysis Services provided include both hemodialysis (HD) & peritoneal dialysis (PD). Faculty clinics are staffed at the Towers Clinic on the downtown campus by the nephrology faculty members, and at the Emerson Transplant Clinic by Dr.'s Vishal Jaikaransingh and Pradeep Kadambi. The nephrology clinics at the UF Health Jacksonville campus include the Nephrology Faculty Clinics, the Anemia

Clinic, the Post-Renal Transplant Clinic, the Fellows' Continuity Clinics, the Correctional Facility Clinic, the HD Outpatient Center and the PD Clinic. The inpatient Nephrology Acute and Chronic Consult Services are staffed by 2 faculty members and two fellows. These two services continue to provide important educational platforms for fellows, medical residents & students. Dr. Ronald Mars was the Quality Officer for the Division.

The Division has been working with the Department of Surgery on improving placement of permanent vascular access for patients preparing for hemodialysis, to fulfill goals of the Fistula First Program. The Post-Renal Transplant Clinic continued to serve as another platform for education of the fellows and care of patients previously transplanted at this program.

Education: The fellows' Renal Physiology Course, initiated in 2010, continued under Dr. Ilic's and Dr. Jaikaransingh's guidance as an important component of the nephrology educational experience. The joint Renal Pathology Teleconference including UF Health Jacksonville, Mayo Jacksonville and Mayo Rochester, has continued to be an important educational component for the Nephrology Fellowship program. The COVID-19 pandemic prevented the Update in Nephrology and Hypertension Symposium in 2020. Otherwise, this has been an important educational venue for fellows and faculty alike. This symposium typically includes UF faculty plus visiting speakers.

The Nephrology faculty continue to participate in educational programs for the Medicine residents, including the Night Float Rotation, Medicine Residents' Noon Conferences, Nephrology Clinics & the Nephrology Hospital Consult Rotations. The Mayo Clinic Jacksonville Renal Transplant Rotation for UF Health Jacksonville Nephrology fellows continued successfully and complements the Nephrology training program at UF Health. The ACGME-required milestones have been incorporated into the fellowship training program and rotation evaluations.

Research: The topics of research studies in the Division spanned from basic science work on glucose transporter & growth factor roles in diabetic and nondiabetic glomerular disease, to translational work genotyping ESRD patients for kidney disease risk alleles, and modified dialysis prescription investigation. Dr. Heilig's laboratory focuses on glucose transporter- and MGF- regulation of glomerulosclerosis in both diabetic and nondiabetic kidney disease. This laboratory continues to be funded from two outside sources. Dr. Ljubomir Ilic was funded for translational work investigating high risk genotypes for kidney disease in patients who progressed to end stage renal disease. Dr. Irtiza Hasan, Renal Fellow mentored by Dr. Heilig, was funded with a UF Dean's Grant to investigate mechanisms of glomerulosclerosis in patients with nondiabetic or diabetic renal disease. Dr. Abdalagani Abakar Baher is working to build his clinic with plans for investigation of glomerulonephritis cases. In addition he participated in a clinical trial of genetics in hypertension in African Americans. Dr. Vishal Jaikaransingh participated in two clinical trials, one on ambulatory blood pressure monitoring, and another on COVID-19 and renal disease. Dr. Ronald Mars investigates the efficacy of modified dialysis prescriptions for cost saving in hemodialysis.

The Nephrology fellows participated in various different research studies & scholarly activities as part of their research training. Fellows also attended/participated in research activities for the 2019 American Society of Nephrology Meeting and the 2020 National Kidney Foundation Meeting. The Nephrology Division produced 4 manuscripts, 5 abstracts, 9 presentations, and 1 scientific invention. There were also 5 active grant awards in the Division this year (4 research grants & 1 education grant).

Special Initiatives:

Nephrology & Hypertension Annual Update, Jacksonville, FL: This year's meeting was deferred due to COVID-19. This otherwise yearly meeting typically provides education and CME credits. Doctors, nurses and others involved in the care of patients with renal disease attend the meeting. The Activity Director is Dr. Ronald Mars.

Nephrology Fellows' Quality Improvement Project in Dialysis: The faculty worked with the fellows on this important activity which helped to fulfill the ACGME – required competency requirements.

Nephrology Fellows' Patient Safety Project: This Fistula-First Project includes, but is not limited to, fellow timely referral for and tracking of AV-fistula placement, outcomes from the time of referral to dialysis initiation and beyond. Goals include optimizing AVF prevalence and function for initiation of dialysis, reduction of vascular access complications once dialysis has begun, and fellow analysis of patient outcomes, by type of access initially used.

Simulation Laboratory Experiences: The Nephrology fellows received Institutional Patient Safety Training in the Simulation Laboratory. They also participated in the yearly Nephrology Simulation Laboratory experiences for temporary hemodialysis catheter placement and renal biopsy.

Fistula First Initiative: Faculty and fellows continue to participate in this quality improvement and patient safety initiative, aimed at improving patient outcomes on hemodialysis.

LISTING OF FACULTY MEMBERS



Abdalagani Abakar Baher, M.D., Assistant Professor

Medical School
Internship/residency
Subspecialty training

University of Khartoum, Khartoum, Sudan
Interfaith Medical Center, Brooklyn, NY
University of Florida College of Medicine-Jacksonville



Yongxin Gao, M.D., Assistant Scientist

Medical School
Postdoctoral training

Jiamusi Institute of Medicine, China
Department of Pharmacology, University of Florida



Charles Heilig, M.D., Professor and Division Chief

Medical School
Internship/residency
Subspecialty training

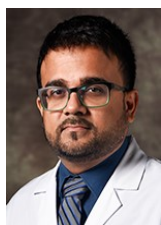
University of Minnesota
Mayo Clinic Rochester
Brigham and Women's Hospital, Harvard Medical School



Ljubomir Ilic, M.D., M.P.H., Assistant Professor

Medical School
Professional Education
Internship/residency
Subspecialty training

Harvard Medical School
Harvard School of Public Health
Yale University School of Medicine
Beth Israel Deaconess Medical Center, Harvard Medical School

**Vishal Jaikarasingh, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

University of the West Indies, Trinidad
University of Florida, Jacksonville, FL
UT Southwestern Medical Center, Dallas, Texas

**Pradeep Kadambi, M.D., M.B.A., Professor and Senior Associate Dean, Clinical Affairs**

Medical School
Professional Education
Internship/residency
Subspecialty training
Subspecialty training

Bangalore University, Bangalore, India
Northwestern University
Yale University School of Medicine
Yale University School of Medicine
University of Chicago– Transplant Nephrology

**Ronald Mars, M.D. Associate Professor**

Medical School
Internship/residency
Subspecialty training

St Louis University
Emory University
Emory University

PUBLICATIONS

Manuscripts:

Suliman ST, Carlson J, Smotherman C, Gautam S, **Heilig CW**, Munroe C, Bridges L, **Ilic L**. Effect of Race and Ethnicity on Renal Transplant Referral. *Clin. Nephrol.* Nov;92(5):221-225, 2019

Ramoutar V, Makary R, Malleswari R, **James L**, **Heilig C**. Liberation from Dialysis Dependence in a Patient with HIV-Associated Nephropathy (HIVAN) after Combined Antiretroviral Therapy (cART). *Case Rep Nephrol* Mar 15;2020:7294765. Doi:10.1155/2020/7294765. eCollection 2020.

Kotla SK, **Kadambi PV**, Hendricks AR, Rojas R. BK Polyomavirus-Pathogen, Paradigm and Puzzle. *Nephrol Dial Transplant.* Dec 31., 2019 pii: gfz273. doi: 10.1093/ndt/gfz273. PMID: 31891401.

Kadambi PV, Brennan D. Kidney Transplantation in Adults: Evaluation and diagnosis of the patient with renal allograft dysfunction. UpToDate, edited by Denise S. Basow, published by UpToDate in Waltham, MA

Abstracts:

Gao Y, Li H, Ramoutar V, Suliman T, **Ilic L**, **Heilig C**. Persistent Mechano-Growth Factor (MGF) Upregulation in Glomeruli of Diabetic or MGF-Transgenic Mice Induces Mesangial Cell (MC) Glucose Transport, PKC Activation, and Extracellular Matrix Production. *JASN* 30:908A, 2019.

Ilic L, Tfirm I, Smotherman C, **Heilig C**. Effects of the GLUT1 A-2841T Polymorphism on Proteinuria in CKD Patients Prior to the Onset of ESRD. *JASN* 30:871A, 2019.

Hasan I, Brifkani Z, Nahman N, Atta M, Heilig K, Racusen L, **Heilig C**. Diabetic Nephropathy on Renal Biopsy in the Absence of Clinical Diabetes Mellitus. *Am. J. Kid. Dis.* 75 (4): 583, 2020.

Warda F, Verdecia J, **Mars RL**. Amiodipine-induced Acute Interstitial Nephritis. (Abstract) American College of Physicians, July, 2019.

Whitney C, **Mars RL**. Iatrogenic Arteriovenous Fistula with Central Venous Catheterization, (Abstract) National Kidney Foundation 2020 Spring Meeting, Am. J. Kid. Dis. 75 (4), 2020.

PRESENTATIONS:

Sanders, K, Patel B, Jacob R, Makary R, Liu S, **Jaikaransingh V**. H. Pylori Eradication in Primary FSGS in a Middle Aged Male. American College of Physicians, March 2020; Orlando, Florida.

Hasan I, **Jaikaransingh V, Heilig C**. A Case of Unilateral Renal Papillary Necrosis. Education and Research day, June 2020; University Of Florida College Of Medicine – Jacksonville.

Hasan I, **Jaikaransingh V**. A rare case of Membranous Nephropathy in a patient with Chronic Myelocytic Leukemia. Education and Research day, June 2020; University of Florida College Of Medicine – Jacksonville.

Ali A, Hasan I, **Jaikaransingh V**. Severe Hypomagnesemia Secondary to PPI in a Patient with an Ostomy. Education and Research Day, June 2020; University of Florida College of Medicine – Jacksonville.

Oliva JR, Hasan I, A-Rivera Z, **Ilic L**. A Case of Severe Tertiary Hyperparathyroidism in a Patient with ESRD. Education and Research day, June 2020; University of Florida College of Medicine – Jacksonville.

A-Rivera Z, Hasan I, **Heilig C**. Gabapentin Toxicity in Existing and Developing Renal Failure. Education and Research day, June 2020; University of Florida College of Medicine – Jacksonville.

Heilig CW.: Mechano-Growth Factor (MGF): From Regulation of Matrix to Glomerulosclerosis. Southern Salt, Water and Kidney Club (SSWKC) Meeting, Longboat Key, FL. 12/7/2019.

Kadambi P. Panelist: Delivering a Great Patient Experience in the Revenue Cycle. Becker's 5th Annual Health IT + Revenue Cycle Conference (October 9-12, 2019, Chicago).

Jaikaransingh, V. Common Medical Complications Associated with Kidney Transplantation. Medical Grand Rounds, UF COM - Jacksonville, Oct. 2019.

Mars R. Acute Kidney Injury. Medical Grand Rounds; UF COM-Jacksonville, Feb. 2020.

Ilic L. Nephrolithiasis. Medical Grand Rounds, UF COM – Jacksonville, March 2020.

HONORS AND AWARDS

Ronald Mars, M.D.: University of Florida Exemplary Teaching Award 2020

Charles Heilig, M.D.: Chair, Scientific Review Session, Department of Defense, Congressionally Directed Medical Research Program, 2020.

Division of Nephrology: National Ranking of the Division at #45 in 2019 by US News and World Report.

CLINICAL ACTIVITIES

| Inpatient activity | AY 19/20 |
|---|-----------------|
| Initial inpatient encounters | 1,116 |
| Inpatient dialysis treatments | 2,925 |
| | |
| Outpatient activity | |
| Clinic visits | 3,163 |
| Outpatient dialysis visits (full month) | 2,588 |

CONTRACTS AND GRANTS

| Principal Investigator | Study Title | Project Period | Sponsor | Award Amount |
|-------------------------------|--|-----------------------|--|---------------------|
| Heilig, C | Reversal of Diabetic Glomerulosclerosis by Inhibition of Mesangial Cell Glucose Transporter GLUT1. | 7/16 – 9/30/20 | Scott R. MacKenzie Foundation, #170008 | \$250,000 |
| Heilig, C | Mechano – Growth Factor (MGF) Roles in Diabetic Glomerulosclerosis - A New Factor Promoting Diabetic Kidney Disease. | 7/16 – 12/20 | DCI #C-3880 | \$346,599 |
| Mars, R | Update in Nephrology & Hypertension 2018 | 4/20 | Dialysis Clinics, Inc. | \$35,000 |
| Ilic, L (Co-PI Heilig C) | Genetic Variations in the Glut1 Gene in Patients with End Stage Renal Disease due to Diabetic Nephropathy. | 2018 – 2021 | DCI #C-4092 | \$44,000 |
| Hasan, I. (Co-PI Heilig C) | Mechanisms of Glomerulosclerosis in Nondiabetic and Diabetic Renal Disease. | 2019 - 2021 | UF Dean's Grant | \$5,000 |

DIVISION OF PULMONARY, CRITICAL CARE AND SLEEP MEDICINE
ACADEMIC YEAR 2020 (7/19 - 6/20)

Highlights

The Division of Pulmonary, Critical Care and Sleep Medicine has shown resilience thru a Global Pandemic with productive faculty members leading to the retention of our two graduating chief medical residents matching into our Fellowship program. The fellowship training program continues to be popular with over 400 applications for the two available positions per year. Clinically, we continue the expansion of Pulmonary Disease clinics and consultation services at UF North. Academically, the division continues to be productive in the areas of clinical and original research and publications. The faculty was involved as moderators and presenters for various sessions in Society of CHEST, Pulmonary Hypertension Association, SETA and ATS conferences. The fellows, under the mentorship of faculty, are engaged in a number of clinical studies, to include COVID-19 related studies. The division had a number of abstracts presented in national and international conferences and was represented in various national and international meetings in the form of providing educational lectures.

Patient care: The division faculty staffs a number of specialized and general pulmonary clinics. The asthma clinic, under the supervision of Dr. Cury, continues to be a part of the American Lung Association Asthma Clinical Research Network and involved in successful industry funded clinical research in this arena. The division continues to be involved with the community drives such as Lung Force uniting clinic and hospital staff with patients and loved ones to bring attention to Pulmonary disease states.

The pulmonary hypertension clinic, under the leadership of Dr. Seeram and Dr. Najjar, continues to be a locally known referral center with patients being referred from regions all over our coast. As member of the Pulmonary Hypertension Association, it is set to become a center of comprehensive care with a successful first site visit in December 2019. We sponsor a support group for patients and loved ones with Pulmonary Hypertension. The clinic currently manages over 200 pulmonary hypertension patients. Performing right heart catheterizations in a dedicated suite has led to excellent patient through put. The program has applied for certification as a Regional Referral Center under The Pulmonary Hypertension Association (PHA).

Janice Wood, RRT continues to be the Pulmonary Hypertension and Interstitial Lung Disease Program Coordinator.

Under Dr. Jones' supervision, the Interstitial Lung Disease and Sarcoidosis clinic continues to expand and is involved in numerous clinical trials in the area of IPF, to include the INBUILD trial that lead to approval for Nintedanib for progressive pulmonary fibrosis.

The fellows' continuity clinic is staffed by at least 5 fellows once a week and supervised by faculty. The number of pulmonary function, 6MWT, NIOX testing performed over both campuses has increased with the addition of a RT at North Pulmonary clinic.

The thoracic oncology clinic continues its multidisciplinary approach to patients with thoracic malignancy. The division successfully initiated the interventional pulmonary program at the North campus under Dr. Hadi Hatoum. The already extensive interventional pulmonary program with EBUS and navigational bronchoscopy for peripheral lung lesions continues to grow with all 6 fellows obtaining certification in navigational bronchoscopy.

The MICU was determined to be the unit for COVID-19+ critically ill patients for the pandemic surge. Our faculty stood up a 24/7 service to provide care without hesitation. The dedication, courage, professionalism has gone unmatched to our faculty, MICU nursing, and axillary staff.

The inpatient pulmonary consult service continues to be busy and, with the continued evolution of the bronchoscopy, thorascopic and right heart cath suite and the number, efficiency and timeliness of procedures offered by the division has been enhanced with the addition of advanced technology across both campuses. The COVID+ non-ICU patients have been consulted to the pulmonary service for recommendations on management and continuity of care.

Education: The faculty has been invited to present lectures at international conferences such as CHEST, ATS and SETA in the past year, which is a reflection of national recognition of our division.

The division continues to play an active role in educational core lecture series including Grand Rounds and Updates in Internal Medicine 2019. The division faculty also has an active role in the educational lectures for a variety of residency programs including Navy family medicine, emergency medicine, obstetrics, internal medicine and trauma critical care. Drs. Cury, Seeram, Hatoum and Jones were honored by University of Florida College of Medicine with the Exemplary Teacher Awards for 2019. Dr. Seeram was honored by University of Florida College of Medicine with Teacher of Year Award for years 2016, 2017, 2018 and is nominated again in 2020.

After a decade of educating and mentoring young Pulmonary and Critical Physicians, Dr. Cury passed the torch of Fellowship Program Directory off to Dr. Vandana Seeram in 2019. She has continued coordinating the educational activities for the fellowship with continued 100% first time board pass rates.

The division was involved in various regional/national/international meetings with faculty representing the University of Florida College of Medicine-Jacksonville by providing educational lectures in various topics of interest.

The faculty continues to mentor and supervise family medicine residents from the Navy residency program during their rotation in medical intensive care unit and have always received very positive feedback from the leadership of Naval Air Station Jacksonville. We have been active in training nurse practitioners and physician assistants not only from the University of Florida sponsored training programs but also from local sponsored programs.

Research: The division has been very successful in obtaining and continuing its clinical research trials along with funded research. The funded research includes dean's grants, UF clinical quality grant and investigator initiated trials. The number of internal unfunded clinical research protocols has also increased substantially resulting in quality abstracts being presented at national and international meetings. A dedicated clinical research coordinator, Fallon Wainwright, has enabled the division to participate in more collaborative based clinical research protocols including sleep medicine and rheumatology.

The faculty has had a number of publications in peer review journals and has manuscripts in preparation. Close collaboration with other departments with common research interests is the key to future protocols and publications.

LISTING OF FACULTY MEMBERS

**Tracy Ashby, D.O., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

Lincoln Memorial University
University of Florida/Jacksonville
University of Florida/Jacksonville

**James D. Cury, M.D., Associate Professor**

Medical School
Internship/residency
Subspecialty training

University of Miami
Barnes Hospital/Washington
Washington University

**Hadi Hatoum, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

American University of Beirut
Indiana University School of Medicine
University of Texas Southwestern

**Lisa Jones, M.D., Associate Professor and Division Chief**

Medical School
Internship/residency
Subspecialty training

University of Cincinnati
University Hospital Cincinnati
Naval Medical Center

**Mariam Louis, M.D., Associate Professor**

Medical School
Internship/residency
Subspecialty training

McGill University
McGill University
McGill University (Pulmonary Medicine)
Johns Hopkins University (Sleep Medicine)

**Nimeh Najjar, M.D., Assistant Professor**

Medical School
Internship/residency
Subspecialty training

Ross University School of Medicine
University of Florida/Jacksonville
University of Florida/Jacksonville

**Vandana Seeram, M.D., Associate Professor**

Medical School
Internship/residency
Subspecialty training

University of West Indies
University of Florida/Jacksonville
University of Florida/Jacksonville

PUBLICATIONS

Manuscripts:

Louis M, Treger K, **Ashby T**, Smotherman C, Gautum S, **Seeram V**, **Cury J**, **Jones L**. Patient-related factors may influence nursing perception of sleep in the Intensive Care Unit. PLoS One. 2020 Jan 6;15(1):e0226323. doi: 10.1371/journal.pone.0226323. eCollection 2020. PMID: 31905204

O'steen L, Bellardini J, **Cury J**, **Jones L**, **Seeram VK**, Mendenhall NP, Hoppe BS. Pulmonary Function after Proton Therapy for Hodgkin Lymphoma. Int J Part Ther. 2019 Winter;5(3):1-4. doi: 10.14338/IJPT-18-00040.1. Epub 2019 Mar 21. PMID: 31788502

Guirgis FW, Black LP, Rosenthal MD, Henson M, Ferreira J, Leeuwenburgh C, Kalynych C, Moldawer LL, Miller T, **Jones L**, Crandall M, Reddy ST, Wu SS, Moore FA. LIPid Intensive Drug therapy for Sepsis Pilot (LIPIDS-P): Phase I/II clinical trial protocol of lipid emulsion therapy for stabilising cholesterol levels in sepsis and septic shock. BMJ Open. 2019 Sep 18;9(9):e029348. doi: 10.1136/bmjopen-2019-029348.

Krishnan N , Patel B, **Palfrey W** , Isache C. Rapidly Progressive Necrotizing Cellulitis Secondary to Candida tropicalis Infection in an Immunocompromised Host. IDCases. 2020 Jan 3; 19:e00691. doi: 10.1016/j.idcr.2019.e00691. eCollection 2020. PMID: 31988847

Book Chapters:

Palfrey W, et al. (2019) Medical Management of Obstructive Sleep Apnea. In Modern Management of Obstructive Sleep Apnea (pp. 7-24). Cham, Switzerland: Springer Nature Switzerland AG.

Steinberg, S and **Louis, M**. Medical Diagnosis of Obstructive Sleep Apnea. Modern Management of Obstructive Sleep Apnea. Springer Publishing 2019. Salam Salman editor.

Louis M, **Salman S**, **Palfrey T**, Staiano P, Green K, Wagih A. Medical Management of Obstructive Sleep Apnea. Modern Management of Obstructive Sleep Apnea. Springer Publishing 2019.

Abstract/Presentations:

S. Shah, **H. Hatoum**, **J. D. Cury**. A Fatal Case of Acute Cholangitis Caused by Aeromonas Sobria. Poster presentation - American Thoracic Society National Conference 2019, Dallas, Texas

Ashby T, Burcher, K and **Louis, M**. A Rare Case of Fatal Aspergillus Niger Tracheobronchitis, Poster Presentation. Chest, New Orleans, 2019

Celso B, **Louis M**, Rodriquez-Quijano P, Staiano P. Insomnia, Sleep Apnea, and Illness: Does Comorbidity Delay the Diagnosis of Obstructive Sleep Apnea in Patients with Insomnia? J Sleep Disord and Med Care, volume 2, issue 1, March 25, 2020

HONORS AND AWARDS

| | | |
|----------------------|--------------------------|-----------|
| James D. Cury, M.D. | Exemplary Teacher Awards | 2019/2020 |
| Hadi Hatoum, M.D. | Exemplary Teacher Awards | 2019/2020 |
| Lisa M. Jones, M.D. | Exemplary Teacher Awards | 2019/2020 |
| Vandana Seeram, M.D. | Exemplary Teacher Awards | 2019/2020 |

CLINICAL ACTIVITIES

| | AY 19/20 |
|------------------------------|----------|
| Inpatient activity | |
| Initial Inpatient Encounters | 763 |
| Outpatient activity | |
| Clinical Visits | 5,981 |
| Procedures | |
| Bronchoscopies | 455 |
| Sleep Studies | 878 |

CONTRACTS AND GRANTS

| Principal Investigator | Study Title | Project Period | Sponsor | Award |
|------------------------|--|-------------------|---------------------|-------------|
| Cury | Leep : Losartan Effects on Emphysema Progression (COPD) | 2017 - present | John Hopkins | \$4,500 |
| Cury | Leep COVID:Losartan Effects on Emphysema Progression (LEEP) COVID-19 Ancillary Study Protocol | 3/2019 - present | John Hopkins | \$1,180 |
| Cury | Match -Improving medication adherence with telehealthcare medication therapy management to change health outcomes in adolescents and young adults with asthma | 2018 - present | John Hopkins | \$535 |
| Cury | D3251C00014 Resolute - A Multicenter, Randomized, Double-blind, Chronic-dosing, Parallel-group, Placebo-controlled Phase 3 Study to Evaluate the Efficacy and Safety of Benralizumab 100 mg in Patients with Moderate to Very Severe Chronic Obstructive Pulmonary Disease (COPD) with a History of Frequent COPD Exacerbations and Elevated Peripheral Blood Eosinophils (RESOLUTE) | 1/2020 – present | AstraZenca | \$26,500.00 |
| Seeram | Sphere Upravi® (SelexiPag): the usErs dRug rEgistry | 11/2017 - present | Actelion | \$6,500 |
| Seeram | RIN-PH-202 – An Open-Label Extension study of Inhaled Treprostinil in Subjects with Pulmonary Hypertension due to Parenchymal Lung Disease | 11/2017 - present | United Therapeutics | \$30,800 |
| Jones | BI 1199.248 – An open-label extension trial of the long-term safety of nintedanib in patients with Progressive Fibrosing Interstitial Lung Disease (PF-ILD) | 5/2019 - present | BI | \$12,912 |
| Jones | Roche – A PHASE II, OPEN-LABEL, RANDOMIZED, MULTICENTER STUDY TO INVESTIGATE THE PHARMACODYNAMICS, HARMACOKINETICS, SAFETY, AND EFFICACY OF 8 mg/kg OR 4 mg/kg INTRAVENOUS TOCILIZUMAB IN PATIENTS WITH MODERATE TO SEVERE COVID-19 PNEUMONIA | 5/2020 - present | PPD | \$43,000 |
| Jones | FGCL-3019-091A – FibroGen - Phase 3, randomized, double-blind, placebo-controlled efficacy and safety of pamrevlumab in subjects with IPF | 3/2020 - present | FibroGen, Inc | \$30,800 |
| Louis | Philips Respironics COPD - enrollment on hold per sponsor Determination of the Prevalence and Severity of Expiratory Flow Limitation in Chronic Obstructive Pulmonary Disease patients | 2/2018 - present | Philips | \$7,500 |
| Jones | REMAP COVID –Randomized, Embedded, Multifactorial Adaptive Platform trial for Community acquired (REMAP-CAP) | 4/2020 | REGENERON PHARMA | \$3,000 |
| Jones | Genetech COVID– A RANDOMIZED, DOUBLE-BLIND, PLACEBO CONTROLLED, MULTICENTER STUDY TO EVALUATE THE EFFICACY AND SAFETY OF TOCILIZUMAB IN HOSPITALIZED PATIENTS WITH COVID-19 PNEUMONIA | 6/2020 | GENENTECH INC | \$43,000 |
| Louis | CATNAP: - Pediatric Narcolepsy Registry Children, Adolescents and Their providers: the Narcolepsy Assessment Partnership | 6/2020 | Jazz Pharma | \$400 |

DIVISION OF RHEUMATOLOGY AND CLINICAL IMMUNOLOGY
ACADEMIC YEAR 2020 (7/19 - 6/20)

Highlights

The Division of Rheumatology and Clinical Immunology had a successful and productive academic year on multiple levels. We have seen some of the fruits of our dedication to the University of Florida College of Medicine–Jacksonville (UFCOM-J) mission. The division is grateful for the continued guidance of our leadership, including our Chairman, Dr. Arshag Mooradian. The Division had significant accomplishments in patient care, research and education.

The Division continues to work with other training programs and the GME office at UFCOM-J in order to provide mentoring and teaching for many students and residents who are interested in our specialty. The current Rheumatology fellowship started with the first fellow, Jaspreet K Kaler in July 2018. Dr Kaler has now graduated and has started private practice in Washington State. The Division organized the extremely successful 11th Annual CME Musculoskeletal Ultrasound training course. National and international Rheumatologists as well as fellows in training attended the course.

The Division has been successful in recruiting faculty members. However, the backbone to our success is the loyal and hardworking staff at our clinics, hospital and administrative offices. During the COVID pandemic, faculty, fellows, clinic and administrative staff worked hard to rapidly adapt to virtual visit practices to allow continuity of care of patients.

Patient care: The Division maintained its clinical volume and growth for the majority of the academic year. Despite the challenges posed by COVID 19, the division was successful in minimizing loss of patient access to care. Patient encounters include, but are not limited to, many types of arthritis, lupus, scleroderma, myositis, autoimmune and systemic diseases, osteoporosis, connective tissue diseases related to inflammation and metabolic dysfunction, soft tissue conditions and pain such as fibromyalgia. We continue to be on the forefront of providing very up to date rheumatology services and 24/7 consultations at UF Health Jacksonville Main Campus and UF North Campus, the Ambulatory Care Clinic and our dedicated outpatient clinic on Emerson Street. The Division also provides musculoskeletal ultrasound services related to rheumatologic care both for inpatient and outpatient settings.

In the outpatient setting, we provide full rheumatology coverage from Monday through Friday, where we provide diagnostic musculoskeletal ultrasound and musculoskeletal procedures under ultrasound guidance.

Excellence is our only goal when it comes to patient care. Our faculty members achieved or exceeded the average in our specialty and in comparison to others at our institution. We touch our patients' lives during some of the most vulnerable moments they will ever encounter alone or with their loved ones. As physicians of the UFCOM-J, we always strive for excellence in our practice.

Education: Education is one of the main missions at the UFCOM-J. Our faculty members have been very dedicated and creative in delivering the best of what they can offer to our students and residents. Our achievements in education were highlighted in multiple venues and the rheumatology fellowship program was a major cornerstone in the growth and development of our academic program. The Division has successfully attained fellowship accreditation starting in July 2018. The fellowship provides a strong clinical focus as well as many opportunities in clinical research, quality improvement as well as musculoskeletal ultrasound.

In the educational program of the University of Florida medical students and residents, Dr. Ramrattan, Dr. Thway, Dr. Ramsubeik and Dr. Kaeley participated in precepting clinics in rheumatology and delivered core

curriculum lectures for the Internal Medicine Residency Program. Faculty members participated in internal medicine Grand Rounds and shared the knowledge as invited rheumatology speakers on a regular basis.

The 11th Musculoskeletal Ultrasound Course in March 2020 was a great success. This 3-day CME hands-on training course uniquely utilized our state of the art simulation laboratory at the UFCOM-J. Dr. Kaeley organized the course and served as faculty, providing lectures and practical ultrasound instruction. Dr. Ramrattan served as a faculty member. Dr Thway served as the assistant course director, anatomy instructor. Dr Zareen Vaghaiwalla, PGY4 Fellow, served as an anatomy proctor and instructor. Rheumatology educators and fellows attended the course from 26 States, as well as from Canada. The attendees were very complimentary of the innovative cadaver-based curriculum held in the UFCOM-J CSESaR Simulation Center. An eLearning component complimented the course. Faculty have also produced eLearning material featured on national websites and are deeply involved in Musculoskeletal Ultrasound education nationally and internationally. Some of the international courses have utilized cutting-edge models produced by the UFCOM-J simulation center. The Division is grateful for the hard work of the simulation staff in making the courses such a success. The Division has also been heavily involved in musculoskeletal ultrasound advocacy by assisting the American College of Rheumatology and Florida Society of Rheumatology in coordinating efforts to interact with Medicare representatives.

E-Learning is an entrepreneur unique project that was pioneered by Dr. Kaeley. The aim of this project is to develop electronic learning content to cover basic Rheumatology Core Curriculum, as well as musculoskeletal ultrasound training material. Dr. Kaeley has successfully deployed Canvas to enable enhancement and deep learning with the fellowship program. The division has also undertaken novel organizational tools such as Trello to improve efficiency.

Research: The Division has been growing its research enterprise. Although the Division is active in numerous pharmaceutical trials, its emphasis is to develop investigator-initiated trials as well as to seek grants. The division has a strong quality improvement program as well as collaboration with the Pharmacy department, which has resulted in poster presentations at the Annual Meeting of the American College of Rheumatology. The division has also started projects with the UF Health Emergency Department. The Division has collaborated with multiple national renowned researchers. Of note, the Division collaborated with University of Alabama to develop skills in meta-analysis resulting in a publication. The Division continues to collaborate with the University of California, Los Angeles Division of Rheumatology in a bi-center prospective trial of Tocilizumab in Rheumatoid Arthritis, utilizing Power Doppler as a secondary outcome measure. In addition, the Division has collaborations with the Women's Hospital, Toronto as well as University of Ottawa as part of an international effort to develop a musculoskeletal ultrasound enthesitis diagnostic tool. The Division has also been evaluating Medicare Expenditures for Musculoskeletal Ultrasound as well as drug utilization. The division had multiple poster presentations at the American College of Rheumatology annual meeting in Atlanta, GA. Members of the Division are closely involved with the Outcome in Clinical Rheumatology Trials (OMERACT) musculoskeletal ultrasound group and is leading the project at developing sonographic outcome tools in psoriatic arthritis and dactylitis.

Kaeley GS, Bakewell C, Deodhar A. The importance of ultrasound in identifying and differentiating patients with early inflammatory arthritis: a narrative review. *Arthritis Res Ther*. 2020 Jan 2;22(1):1. doi: 10.1186/s13075-019-2050-4. Review. PubMed PMID: 31898524

Kaeley GS. Enthesitis in psoriatic arthritis (Part 2): imaging. *Rheumatology (Oxford)*. 2020;59(Supplement_1):i15-i20. doi:10.1093/rheumatology/keaa040. PMID: 32159789

Kaler, J, Sheffield, S, **Thway, M**, **Ramsubeik, K**, **Kaeley, G**. Pyoderma Gangrenosum as a Presenting Feature of Undifferentiated Spondyloarthropathy with Erosive Inflammatory Arthritis. *Case Reports in Rheumatology*. 2020,00; 1-7.

Bakewell C, Aydin SZ, Ranganath VK, Eder L, **Kaeley GS**. Imaging Techniques: Options for the Diagnosis and Monitoring of Treatment of Enthesitis in Psoriatic Arthritis. *J Rheumatol*. 2019 Nov 1. pii: jrheum.190512. doi:10.3899/jrheum.190512. [Epub ahead of print] PubMed PMID: 31676700.

Chahin, M, Seegobin, K, Maharaj, S, **Ramsubeik, K**. Metastatic ductal adenocarcinoma of the breast presenting with pericardial effusion - Challenges in the diagnosis of breast cancer. *Clin Case Rep*. 2019;7(12):2384–2387.

Ashley Thomas, Nithya Krishnan, Nicole Vesely, **Myint Thway**, Rafik Jacob. Dermatologic manifestations of granulomatosis with polyangiitis: A case report and literature review. *Case Reports in Internal Medicine*. 2019

Book Chapters

Ramsubeik K, **Ramrattan LA**, **Thway M**, **Kaler J**, **Kaeley GS**. (2020) Regional Musculoskeletal Syndromes and the Use of Musculoskeletal Ultrasound. In: Efthimiou P. (eds) *Absolute Rheumatology Review*. Springer, Cham. DOI: https://doi.org/10.1007/978-3-030-23022-7_4

Electronic Publication Monographs:

Kaeley GS, Evaluation of Seronegative Arthritis. *BMJ Point-of-Care*; www.pointofcare.bmj.com. (Reviewed May 2019: <https://online.epocrates.com/u/29111057/Evaluation+of+seronegative+arthritis>).

Kaeley GS, Cryoglobulinemia. *BMJ Point-of-Care*; www.pointofcare.bmj.com. (Reviewed June 2019: <https://online.epocrates.com/u/2911870/Cryoglobulinemia>).

Web Based Electronic Learning Content

March 2020: Group for Research and Assessment of Psoriasis and Psoriatic Arthritis (GRAPPA) Enthesis Ultrasound Training Videos. Eder L, Aydin SZ, Kaeley, GS. Illustrations Roth J. <https://www.grappanetwork.org/ultrasound> Site contains seven training videos

August 2019: Imaging in Psoriatic Arthritis video. <https://www.consultant360.com/video/rheumatology/psoriatic-arthritis/gurjit-s-kaeley-md-imaging-psoriatic-arthritis>

UF Canvas Electronic Learning Management System for Rheumatology Fellowship

2019 – Present: **Kaeley GS**: Enthesitis in Psoriatic Arthritis.

<https://www.consultant360.com/video/rheumatology/psoriatic-arthritis/gurjit-s-kaeley-md-enthesitis-psoriatic-arthritis>

2018 - Present: **Kaeley GS**, Eder L, Aydin SZ, Gutierrez M, Bakewell C. Dactylitis: A hallmark of psoriatic arthritis audio slide presentation:

<http://linkinghub.elsevier.com/retrieve/doi/10.1016/j.semarthrit.2018.02.002?goto=sd>

<http://audioslides.elsevier.com/getvideo.aspx?doi=10.1016/j.semarthrit.2018.02.002>

2018 – Present: **Kaeley GS**, Eder L, Aydin SZ, Gutierrez M, Bakewell C. Enthesitis: A Hallmark of Psoriatic Arthritis audio slide presentation:

<http://linkinghub.elsevier.com/retrieve/doi/10.1016/j.semarthrit.2017.12.008?goto=sd>

<http://audioslides.elsevier.com/getvideo.aspx?doi=10.1016/j.semarthrit.2017.12.008>

2015 – Present: **Kaeley GS**, Sonography of Psoriatic Arthritis. (Module for Ultrasound School for North American Rheumatologists): <https://vimeo.com/user19386467/review/145809370/90b8109dc7>

2013 – Present: **Kaeley GS**, Musculoskeletal Ultrasound CME Pre-Course Module. (CME provided by Suwanee Area Health Education Centers (AHEC).

2013 – Present: **Kaeley GS**, Rheumatology Fellowship Learning Management System. Design, implementation of a learning management system for UFCOM-J Rheumatology Fellows. (<https://ufcomed.instructure.com/courses/67>).

Abstracts Presented

Kaeley G, Ferm J, Dang L. Prevalence of Corticosteroid Use in Incidental Vertebral or Hip Fractures [abstract]. Arthritis Rheumatol. 2019; 71 (suppl 10).

Gutierrez M, Pineda C, Vazquez-Mellado J, Moreno Alvarez M, Rosa J, Reginato A, Chavez M, Alva Linares M, Audisio M, Mendonca J, Cazenave T, Sedano O, Ventura Ríos L, de Miguel E, **Kaeley G**, Scheines E, Hofmann F, Aguilar G, Waimann C, Marengo F, Ruta S. PANLAR Ultrasound Study Group Recommendations for the Use of Imaging in the Management of Patients with Gout [abstract]. Arthritis Rheumatol. 2019; 71 (suppl 10).

Activities and Presentations:

Kaeley GS. Psoriatic Arthritis – A detailed look at the many structures in the wrist and hand that can contribute to pathology in a rheumatic disorder. Canadian Rheumatology Ultrasound Society Musculoskeletal Ultrasound Course. Victoria, British Columbia, Canada. February 2020

Kaeley GS. Invited faculty for hands on instruction of workshops. Canadian Rheumatology Ultrasound Society Musculoskeletal Ultrasound Course. Victoria, British Columbia, Canada. February 2020.

Kaeley GS. Ultrasonography of Rheumatoid Arthritis. Musculoskeletal Ultrasound Course & Interventional Cadaver Workshop for Rheumatologists. Jacksonville, Florida. February 2020.

Kaeley GS. Role of MSK Ultrasound in Diagnosis and Management of Rheumatic and MSK Disorders for Rheumatologists. Musculoskeletal Ultrasound Course and Interventional Cadaver Workshop for Rheumatologists. Jacksonville, Florida. February 2020.

Kaeley GS. Invited faculty for hands on instruction of workshops. Musculoskeletal Ultrasound & Cadaver Workshop for Rheumatologists. Jacksonville, Florida. February 2020.

Ramrattan LA. Invited faculty for hands on instruction of workshops. Musculoskeletal Ultrasound & Cadaver Workshop for Rheumatologists. Jacksonville, Florida. February 2020.

Ramsubeik K. Clinical Challenges in Osteoporosis Care. A Case Based Grand Rounds. UF Health Grand Rounds. Jacksonville, Florida. January 8th 2020.

Kaeley GS. Invited faculty for hands on instruction - American College of Rheumatology Musculoskeletal Advanced Ultrasound Course for Rheumatologists, Atlanta, Georgia. November 2019. (Stations included Enthesitis, Gout from CPPD, Inflammatory arthritis scoring)

Kaeley GS. Faculty and co-writer Musculoskeletal Ultrasound Board Review Workshop at American College of Rheumatology Annual Meeting, Atlanta, Georgia. November 2019.

Kaeley GS. Faculty and Instructor American College of Rheumatology Annual Meeting Ultrasound Guidance Course Utilizing Hand and Knee Injection Models. Atlanta, Georgia. November 2019.

Kaeley GS. Faculty and Instructor Basic Musculoskeletal Ultrasound Workshop at American College of Rheumatology Annual Meeting, Atlanta, Georgia. November 2019.

Kaeley GS. Prevalence of Enthesitis in PsA: Imaging. GRAPPA meeting adjacent to American College of Rheumatology Annual Meeting, Atlanta, Georgia. November 2019.

CLINICAL ACTIVITIES

| | AY 19/20 |
|------------------------------|-----------------|
| Inpatient Activity | |
| Initial Inpatient Encounters | 135 |
| Outpatient Activity | |
| Clinic Visits | 5884 |
| US, extremity, nonvascular | 454 |

CONTRACTS AND GRANTS

| Principal Investigator | Study Title | Project Period | Sponsor | Award Amount |
|-------------------------------|---|-----------------------|----------------|---------------------|
| Kaeley, G | Phase 3B/4 Randomized Safety Endpoint Study Of 2 Doses Of Tofacitinib In Comparison To A Tumor Necrosis Factor (TNF) Inhibitor In Subjects With Rheumatoid Arthritis | 7/5/14 - Present | Pfizer | \$79,783.20 |
| Kaeley, G | Phase 2 Study, Multicenter, Open-Label Extension (OLE) Study in Rheumatoid Arthritis Subjects Who Have Completed a Preceding Phase 2 Randomized Controlled Trial (RCT) with ABT-494 | 10/22/14 - Present | Abbvie | \$318,649.29 |
| Kaeley, G | A Randomized, Double-blind, Placebo- and Active-controlled, Multicenter, Phase 3 Study to Assess the Efficacy and Safety of Filgotinib Administered for 52 weeks in Combination with Methotrexate to Subjects with Moderately to Severely Active Rheumatoid Arthritis Who Have an Inadequate Response to Methotrexate (FINCH-1) | 2/1/17 – 9/17/19 | Gilead | \$327,000.00 |
| Kaeley, G | A Randomized, Double-blind, Placebo- and Active-controlled, Multicenter, Phase 3 Study to Assess the Efficacy and Safety of Filgotinib Administered for 52 Weeks Alone and in Combination with Methotrexate (MTX) to Subjects with Moderately to Severely Active Rheumatoid Arthritis Who Are Naive to MTX Therapy (FINCH-3) | 2/1/17 – 9/20/19 | Gilead | \$286,254.00 |
| Kaeley, G | A Multicenter, Double-blind, Long Term Extension Study to Assess the Safety and Efficacy of Filgotinib in Subjects with Rheumatoid Arthritis (FINCH-4) | 4/12/18 - Present | Gilead | \$288,920.00 |
| Kaeley, G | A Multicenter, Double-blind, Placebo-controlled, Parallel-group Study of Ustekinumab in Subjects with Active Systemic Lupus Erythematosus | 4/15/19 – 1/28/20 | Janssen | \$239,028.50 |
| Kaeley, G | A 52-week, phase 3, multicentre, randomised, double blind, efficacy and safety study comparing GSK3196165 with placebo and with tofacitinib, in combination with methotrexate in participants with moderately to severely active rheumatoid arthritis who have an inadequate response to methotrexate. | 10/24-19-Present | GSK | \$120,605 |
| Kaeley, G | A 24-week, phase 3, multicentre, randomised, double-blind, efficacy and safety study, comparing GSK3196165 with placebo and with sarilumab, in combination with conventional synthetic DMARDs, in participants with moderately to severely active rheumatoid arthritis who have an inadequate response to biological DMARDs and/or Janus Kinase inhibitors. | 1/30/20- Present | GSK | \$77,610 |

