

MEDICINE

NEWS FROM THE DEPARTMENT OF MEDICINE

MATTERS

MESSAGE FROM THE CHAIR

SEPTEMBER 2022



The summer has seemed to fly by, and, amazingly, we will be entering September. I hope everyone had some time off during the summer and enjoyed time with family and friends. There is no doubt that the past few years have taught me the value of time away and the importance of finding ways to relax and recharge. As we gear up for this academic year, we are busy defining the priorities for the Department of

Medicine in our clinical, research, and education missions. This year, these will be developed in conjunction with the Health System, and there will be a focus on growth in research (with the opportunity to recruit new faculty), improvement in clinical outcomes, and continued development of our educational offerings as expansion into Northern Virginia. The specifics of the plan and how they will intersect with the larger institutional strategic plan are in development, and I will share them with you as they evolve.

In this edition of Medicine Matters, we focus on the best Nephrology Division in the country, our own! I am proud to be a member of this Division, which includes national and international leaders in the field. The Division is led by Dr. Mark Okusa, who has discovered ground-breaking mechanisms in the pathogenesis of acute kidney injury, leading to the development of novel therapeutics. Other leaders in the Division are highlighted in the newsletter as well as their recent publications. In addition, the Division is the home of a leading transplant program (led by Dr. Alden Doyle) that has seen amazing growth over the past years. Please congratulate the Division members on their remarkable achievements.

With best wishes,

Mitchell H. Rosner, MD, MACP
Henry B. Mulholland Professor of Medicine
Chair, Department of Medicine

 UVA Health | DEPARTMENT OF MEDICINE

MISSION

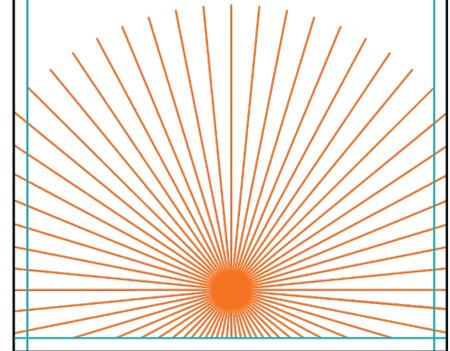
We are dedicated to preventing disease and treating illness, educating and inspiring future leaders in the field of internal medicine, and supporting innovative biomedical research.

VALUES

We strive for a sense of community, connection, and synergy among all faculty, staff, and trainees.

PLEDGE

We will conform to the highest ethical standards, uphold the values of our partner organizations, and give back to our community through public service.



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[MINDFULLNESS MATTERS](#) . . . ▶

[GIVE TO DOM](#) ▶

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UVA Health

Congratulations Class of 2026!

Congratulations to the 151 members of the School of Medicine's Class of 2026 who put on their white coats for the first time on August 12th during the annual White Coat Ceremony and Convocation. Watch the Video...



MINDFULNESS FOR HEALTHCARE EMPLOYEES

Mindfulness for Healthcare Employees
Free Fall 2022 Course
In person Fontaine Research Park
Wednesdays, Sept 21 – Nov 9, 2022
6:30pm – 8:30pm
Retreat: Saturday, Oct 29, 2022
[Register Here](#)

Welcome To The World



Congratulations to Nick and Molly Ashur who welcomed daughter Aurelia Hope born on Friday, August 12, 2022.



The Division of Hematology/Oncology welcomed new fellows in July. Meet the Class of 2025. From left: Shipra Maheshwari, Jeffrey Lantz, Jack Masur, and Jenna Schlefman



The Professional Education Team together to celebrate Leslie Stewart's retirement. (Leslie, front and center in sunglasses)

Do You Have News You'd Like To Share on Medicine Matters?

Contact Kim Kelley-Wagner
kak2cj@virginia.edu
434.328.0680

DOM UPDATES & NOTES



Laurie Archbald-Pannone MD



Aditya Sharma MBBS



Michael Mangrum MD



Julia Scialla MD



Jennifer Sasson MD



Jaquiline Hodges MD MPH



Corey Cavanaugh MD



Jenna Ally RN MSN AG-
ACNP



Christiana Brenin MD

Awards and Achievements

Congratulations to all newly tenured members of the Department of Medicine! **Drs. Laurie Archbald-Pannone , Aditya Sharma, Michael Mangrum, and Christopher M. Moore.**

Congratulations to **Dr. Julia Scialla** (Division of Nephrology) on research linking chronic kidney disease to eating fewer fruits and vegetables. The research “*Patterns of Fruit and Vegetable Intake in Adults with and without Chronic Kidney Disease in the United States*” has been published in Journal of Renal Nutrition and gained national attention and coverage. [Learn more.](#)

Congratulations to **Dr. Jennifer Sasson** (Division of Infectious Diseases Fellow) whose study finds that a monoclonal antibody used to treat asthma and eczema can improve survival for patients with moderate to severe COVID-19. [Learn more.](#) The findings, “*Safety and Efficacy of Dupilumab for the Treatment of Hospitalized Patients With Moderate to Severe Coronavirus Disease 2019: A Phase 2a Trial*” have been published in the journal *Open Forum of Infectious Diseases*.

Congratulations to **Dr. Jaquiline Hodges** on the renewal of her NIH LRP award from NIAID Funding. The NIH program helps promote careers in research by paying student loans. [Learn more.](#)

Congratulations to **Dr. Laurie Archbald-Pannone** who has been recognized by the Rosalind Franklin Society for her outstanding publication in the Journal of Telemedicine and eHealth and been presented a 2021 Rosalind Franklin Award in Science. [View press release.](#)

Congratulations to **Dr. Corey Cavanaugh** (Division of Nephrology) who has been appointed to serve on the 2023 American Society of Nephrology (ASN) Kidney Week Education Committee. This committee plans the educational content for ASN’s annual meeting which is attended by 14,000 nephrologists from around the world.

Congratulations to Advance Practice Provider, **Jenna Ally**, celebrates ten years of service with the Division of Hematology/Oncology in September.

Congratulations to **Dr. Christiana Brenin** who celebrates twenty years of service with the Division of Hematology/Oncology in September.

The Department of Medicine and Division of Hematology/Oncology welcomes **Dr. Paul Viscuse** and **Dr. Paul Skelton** who joined GU Oncology in August, 2022. Dr. Viscuse was a senior fellow at MD Anderson and the recipient of the JCO Young Investigator Award. Dr. Skelton comes to us from the Moffitt Cancer Center as a senior fellow.



Follow DOM on Twitter

Dr. Petri answers your COVID-19, monkeypox and polio questions infections (Daily Progress)

University of Virginia immunologist and COVID-19 researcher Dr. William Petri continues to answer reader questions about COVID-19 and, now, monkeypox.



UVA infectious disease expert says to take 'monkeypox quite seriously' (NPR)

Dr. Patrick Jackson, an infectious disease expert at the University of Virginia said that "people who are in these risk groups should take monkeypox quite seriously. They should be aware of their health, their partner's health [and] get tested, if there are any concerns."



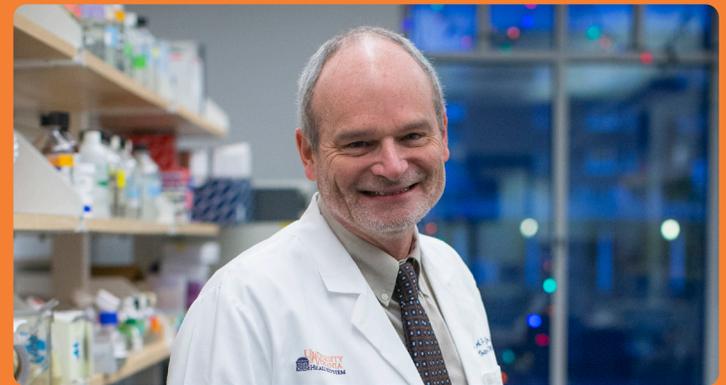
You're Probably Better at Hydrating Than You Think (VeryWellHealth)



Water drinking guidelines can be hugely variable and imprecise, Mitchell Rosner, MD, a nephrologist and professor with a focus on fluid and electrolyte disorders at the University of Virginia, told Verywell.

Dr. Petri explains a Neanderthal connection to COVID-19, and rebound infections (Daily Progress)

University of Virginia immunologist and COVID-19 researcher Dr. William Petri continues to answer reader questions about COVID-19 and, now, monkeypox.



Taison D. Bell, MD, Discusses the Four Main COVID-19 Treatments on Podcast (In The Bubble)

Assistant Professor Taison D. Bell, MD discussed the four main treatments for COVID-19 on the podcast In the Bubble with Andy Slavitt.



How I treat and prevent COVID-19 in patients with hematologic malignancies and recipients of cellular therapies (Blood Journal)



Using 3 illustrative cases, El Chaer et al discuss the options for the prevention and therapy of COVID-19 infection in patients with hematologic malignancies and recipients of cellular therapies. The authors provide useful practical recommendations and algorithms for current treatment.

Standard vs high-dose anthracycline vs anthracycline + gemtuzumab ozogamicin in favorable risk AML

(Video Journal of Hematological Oncology)



More Than 7,500 People Infected with Monkeypox in the U.S. (MSNBC - Zerlina)

Dr. Ebony Hilton discusses the addition of another virus and its spread to the US population.



Covid Case Increase Prompts the Return of Masks (NBC News)

Dr. Taison Bell speaks with NBC Nightly News about the BA-5 sub-variant. New numbers show the rapid increase in covid cases spreading across the U.S.



Mobile Health Platform for People with HIV Lauded as 'Best Care Practice' (UVA Today)

A UVA-created smartphone app called PositiveLinks connects people with HIV to a digital support community.



Positions Available on NIDDK

Positions available on NIDDK sponsored T32 postdoctoral training grant in Neuroendocrinology and Metabolism

Qualified post-doctoral trainees are eligible to apply for a two-year fellowship (with possibility of a 3rd year if progress warrants) for advanced training in the broad area of neuroendocrinology and metabolism. Focal areas of research include diabetes, obesity, circadian biology, feeding behavior, reproductive biology and related areas.

Applicants must be either a permanent resident or citizen of the US and have completed their MD, PhD, DO, or DVM degree. It is expected that most trainees will qualify for two years of support at NIH postdoctoral stipend scale. Items needed to evaluate a fellowship applicant are trainee NIH Biosketch, copy of the mentor's NIH other support page, and a one or two page outline of the planned research project. We ask that the trainee do this in an NIH format with a short section on aims, significance, innovation, and approach, with several sentences indicating his/her longer-term career plans.

Trainees would conduct their research in the laboratory of a training grant mentor. Current mentors are listed below in the URL or QR code provided. For questions about the training grant program or the application process please click [this link](#) and go down to the T32 Training Program section.

Qualified applicants should contact Amanda Powell, T32 Program Administrator at ahp9q@hscmail.mcc.virginia.edu.



NEW PUBLICATIONS: "MRD in ALL: Optimization and Innovations"

DOM UPDATES & NOTES

New studies opened since July 01, 2022

LCM: Lymphoma/CLL/Myeloma

IRB # *Pembrolizumab-based adaptive therapy for classical Hodgkin lymphoma in patients age 60 and above*

HSR210534

CT. Gov. ID:

NCT05404945

Sponsor Protocol CHL001 Sponsor: University of Virginia

Principal Investigator: Portell, Craig

Study Contact: Cara Hanby clh5ke@virginia.edu 434-243-9900

IRB # *A phase Ib open-label study to evaluate the safety and anti-cancer activity of loncastuximab terisine in combination with other anti-cancer agents in patients with relapsed ore refractory B-cell non-Hodgkin lymphoma*

HSR220009

CT. Gov. ID:

NCT04970901

Sponsor Protocol ADCT-402-105 Sponsor: ADC Therapeutics S.A.

Principal Investigator: Ayers, Emily

Thoracic

IRB # *Real-time Monitoring and Modeling of Symptoms and Adverse Events in Lung Cancer Patients Receiving Oral Targeted Therapies for Tumors with EGFR mutations or ALK Rearrangements*

HSR210257

CT. Gov. ID:

NCT05370469

Sponsor Protocol LUNG001 Sponsor: University of Virginia

Principal Investigator: Gentzler, Ryan

**UVAHS VOLUNTEERS NEEDED
FOR UVA COVID-19
COMMUNITY TESTING PROGRAM**

SIGN UP HERE

Strict infection control precautions are followed and PPE is offered to every one according to the risk of exposure per our infection control colleagues.

Save the Date!

2022 Michael J. Weber Symposium

The second annual Michael J. Weber Symposium to honor Dr. Weber's life and achievements will be held on October 14, 2022. The central theme will be "Multi-Omics Precision Oncology"

**More information here: 2022
Michael J. Weber Symposium**

UNIVERSITY OF VIRGINIA

**MEDICINE
GRAND
ROUNDS**

DEPARTMENT OF MEDICINE

SAVE THE DATE!

Friday, April 14, 2023



UVA Health
Provided by the University of Virginia
School of Medicine and School of Nursing

**Updates in Hematology and
Hematologic Malignancies 2023**

Fri, April 14, 2023
8am-3:30pm
Omni Hotel, Charlottesville

Course Directors: Firas El Chaer, MD and Hillary Maitland, MD, MS

Program Overview

This program will explore research and advances in the diagnosis and management of benign hematologic conditions and hematologic malignancies, including indications for novel therapies. Aimed at community hematologists and oncologists, as well as advanced practice providers, nurses, and pharmacists. This meeting will use case-based presentations to highlight recommendations for treatment of common hematologic diagnoses.

For more information, visit the UVA CE learning portal at

www.cmevillage.com or our event page [here](#)

Questions? Please contact:

Elizabeth Patterson epatterson@virginia.edu or 434-982-3687

Please join us for the

**Women In Medicine Network
(WIMN)**

In-person Gathering

Light Refreshments Served

Tuesday, September 27, 2022

5:00 – 6:30pm



Claude Moore Bldg Patio
200 Jeanette Lancaster Way
Charlottesville VA

RSVP: RWomeninMedicineNetwork@hscmail.mcc.virginia.edu



**12 Mental Health and Wellness
Resources For You To Know About**

DIVISION OF NEPHROLOGY

Mark Okusa MD, Chief, Division of Nephrology; Center for Immunity, Inflammation & Regenerative Medicine



Mark Okusa, MD

Rounds speaker. The Phillip C. Liverman Distinguished Lectureship at Medical Grand Rounds was held on April 29, 2022. This lectureship was named after one of our fellows who died in 1984. His family established this lectureship which has been running since 1986. This year we had our inaugural W. Kline Bolton Distinguished Lectureship, and our guest speaker was the eminent nephrologist Dr. Richard Glassock, from the University of California, Los Angeles. Travel to international and national meetings has returned as another signal that we are returning to where we were pre-COVID.

We were pleased to finally host the W. Kline Bolton Distinguished Lectureship on May 13, 2022. Although initially planned for the year before, we decided that we could not possibly have a virtual inaugural lectureship; hence we postponed the event for a year. As many of you know, Dr. Bolton was the Division Chief of Nephrology from 1998 for 20 years, and made many contributions to the University of Virginia and the field of Nephrology. An endowment was established to host renowned nephrologists to the University of Virginia as visiting professors. This year Dr. Richard Glassock was our distinguished lecturer. He was past president of the American Society of Nephrology, and former Chair of the Departments of Medicine at the University of Kentucky and Harbor-UCLA Medical Center.

Simply put, we have a phenomenal Nephrology team! As we cautiously ride the unpredictable wake of COVID-19, our remarkable team continues to be incredibly productive. This year we would like to highlight a number of faculty, fellows, researchers, and staff, for award-winning activities, national recognition, new grants, papers, and achievements. We have also been experiencing a refreshing return to in-person normalcy. Hybrid seminars and conferences; in-person meetings are becoming more frequent. We welcomed Renal Grand Round speakers back to UVA and hosted two successful endowed lectureships. Dr. Anupam Agarwal, the Executive Vice Dean of the University of Alabama, Birmingham, was our Philip C. Liverman Distinguished Lecturer. We had the bonus of his wife, Dr. Lisa Curtis as our Renal Grand



Clinical Update



Anubhav Kumar, MD

The Division continues to have a thriving clinical practice, from patient activities to outreach clinics. Clinical performance continues to remain strong post-COVID-19. Our sub-subspecialty clinics continue to grow. Although we previously highlighted Dr. Amanda Renaghan, our onconeurologist, who staffs an Onconeurology Clinic, as well as Corey Cavanaugh, who heads up our glomerulonephritis clinic, we would also like to recognize **Dr. Anubhav Kumar**, who is newly appointed Director of the Acute Hemodialysis Unit. Dr. Kumar was appointed interim director last year, and because he has done an excellent job, he was unanimously appointed full-time medical director of the unit. Dr. Kumar was a nephrology and ultrasound fellow at the University of Pennsylvania before his recruitment to the University of Virginia in 2019. Dr. Kumar is an expert in ultrasound as he is shown here instructing one of our former fellows in the technique of point of care ultrasound.

In his role as acute HD Unit Director, Dr. Kumar has established new protocols, and refined existing ones for using CRRT in the operating room.



Transplant Program

The Kidney and Pancreas transplant programs at UVA continue to thrive under the direction of Dr. Alden Doyle. The volumes of referrals, evaluations, and transplants have approximately doubled over the last seven years, projecting an additional 25% increase this fiscal year. The transplant team, leading some of the Health System's efforts, has set up outreach clinics across the Commonwealth, with approximately 100 full-day clinics set up at five distal sites, to provide greater access to lifesaving organ transplantation. Notable accomplishments have recently included the

early adoption of hepatitis C + donors, COVID + donors; ABO mismatched donors, living donor chains, robotic transplants for obese recipients, multimodal strategies to protect against COVID in this highly vulnerable population, and the development of innovative immunosuppression strategies. This academic year, the team welcomes three new surgeons, is hoping to add two new transplant nephrologists, inaugurate a new HLA lab, expand the inpatient transplant unit, and move to an expanded dedicated outpatient space in the West Complex that adds significant on-site treatment and infusion capabilities.

UVA Nephrology in Culpeper

The Culpeper unit serves patients in the Culpeper, Orange, and Northern VA area, and provides support for in-center self-care dialysis on Tablo dialysis machines. The home program growth has continued with an anticipated 1-2 additional PD patients to start transitioning from other UVA units this summer. We have hired Bobak Sharifi, MD, a former UVA nephrology fellow who will begin full-time work in the Culpeper/Orange area. He will open a CKD clinic in Culpeper and provide inpatient and outpatient services in Culpeper.

Augusta Hospital

Augusta Hospital team led by Adam Campbell continues to have a strong performance. Daphne Knicey and Anita Vincent-Johnson have been excellent additions to Augusta. Pinnacle Clinic volumes continue to expand with more referrals from the Harrisonburg region.

Clinical Update

UVA Nephrology in Farmville/Lynchburg

Our Farmville CKD Clinic has finally opened and will provide care for CKD patients in that region. Dr. Catarina Regis continues to service the Farmville area, and Dr. Hanna Zaraket continues to service the Lynchburg region.

Our outreach program for general and transplant nephrology is advancing into specific areas of strategic growth. Our specialty care has made for a strong Centra Lynchburg relationship, while North Virginia is identified as another area that shows great promise. This is evidenced by our Culpeper Dialysis station, Augusta Hospital, and our new Dialysis units in Lynchburg and Farmville. Dr. Bobak Sharifi will open a CKD clinic in Culpeper, and provide inpatient and outpatient services.

Advancing American Kidney Health

Advancing American Kidney Health Initiative was announced by the White House in 2019, and aimed to produce improved outcomes at a lower cost for our 37 million people in the US with chronic kidney disease. Although kidney transplantation is a significant focus and offers the best clinical outcomes at the lowest cost, not every person is eligible for a transplant. Thus, many individuals will receive some form of dialysis and home therapies. Home therapies offer similar outcomes to in-center dialysis at a lower cost. It is the hope of this effort to provide more “person-centered care.” Dr. Rasheed Balogun, our Director of the Regional Dialysis Program, is leading the value-based care effort. We applied and received an acceptance letter from the Center for Medicare & Medicaid Innovation (CMMI) into the alternative payment model, Kidney Care First (KCF). The KCF option is open to participation by nephrology practices and nephrologists only. Implementation will take place at the beginning of 2023.

Educational Update - Fellowship Program

Under the guidance of our new Program Director, Dr. Tushar Chopra, and Associate Program Director, Dr. Corey Cavanaugh, we had a remarkable fellowship recruitment effort. They are employing the use of surveys, and other methods, to continuously improve the fellowship program. We have also initiated several programs that will enhance our future pipeline. Our Nephrology Interest Group drew considerable interest among students and residents, and Dr. Chopra will begin a Kidney Disease Screening and Awareness Program (KDSAP) program in the fall. We were successful in recruiting four outstanding fellows starting July 1, 2022.



Ayman Alghamdi, MBBS

Residency: Ochsner Medical Center

Fun Fact: I enjoy cooking, and I spend quite some time learning to cook new things from different cultures



Lalida Kunaprayoon, MD

Residency: Hurley Medical Center, Michigan State University

Fun Fact: I am a foodie. I've tried all kinds of food, the good, the bad, and the weird.



Monarch Shah, MBBS

Residency: Saint Peter's University Hospital

Fun Fact: I love watching, and playing soccer. I used to be a DJ as a teenager, but I still mix music and play percussion instruments. It's the best stress buster.



Benjamin Silverberg, MD

Residency: University of Virginia

Fun Fact: During my free time, I enjoy kayak fishing and trying new restaurants. I host the best (and probably only) crawfish boils in Charlottesville.

DIVISION OF NEPHROLOGY

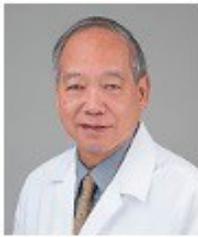
Research Update

The Division of Nephrology and the Center for Immunity, Inflammation and Regenerative Medicine (CIIR) continue to advance the research from clinical to the bench. Despite COVID, our faculty and trainees never waived and continued to work under the restrictive guidelines established by the institution. New grants were awarded totaling nearly \$6 M, of which almost 90% is from NIH. Our efforts also focus on training the next-generation of investigators as we reach out to postdoctoral and predoctoral fellows, and college and high school students through our training grants. Members of the CIIR are shown below.

Center for Immunity, Inflammation, and Regenerative Medicine



Sylvia Cechova, PhD



Shu Man Fu, MD, PhD



Michael G. Brown, PhD



Sho Morioka, PhD



Rahul Sharma, PhD



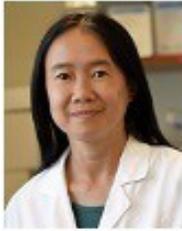
Uta Erdbrügger, MD



Mark Okusa, MD



Sanja Arandjelovic, PhD



Junlan Yao, PhD



Peter Lobo, MD



Didier Portilla, MD



Jitendra K. Gautam, PhD



Sun-Sang J. Sung, PhD



Joel Linden, PhD

Along with their dedicated research efforts, CIIR members always find ways to enjoy themselves as shown by the montage below.



Research Highlights - Basic Science



Rahul Sharma, PhD

Dr. Rahul Sharma

Dr. Sharma studies autoimmunity and inflammation, primarily focusing on the role of the anti-inflammatory T-regulatory cells (Tregs). The central theme of his laboratory is to understand the role of alarmins in the pathophysiology of these disorders. Utilizing these pathways, he has generated novel biologics, such as a bispecific hybrid-cytokine IL233 bearing the activities of IL-2 and IL-33. This novel therapeutic agent, via T-regulatory cells, innate lymphoid cells, and macrophages, suppresses ongoing inflammation in autoimmunity (lupus, type-1 diabetes), acute kidney injury, and metabolic syndrome by inhibiting diabetes and converting white adipose into brown adipose tissue. Dr. Sharma's work has generated two US (and international) patents for treating autoimmune and inflammatory diseases. His technology was among the top 11 of 130 participants in a global "Science to Startup" competition, a forum for top scientists from around the world to present their ideas and interact with leading investors and executives in the Boston biotechnology hub licensed to Slate Bio Inc. In this biotech start-up, Dr. Sharma is a co-founder. In July 2022, Dr. Sharma received

a new 1.5-year \$575,000 research award from the Virginia Catalyst to support IND-enabling research-based technology in collaboration with Virginia Commonwealth University (VCU), Virginia Tech, and Slate Bio Inc. The project is titled "Bifunctional Fusion Cytokine Therapy for Autoimmune Diseases." Lastly, Dr. Sharma was awarded a new 3-year national Discovery and Development Partnership grant (\$150,000/yr) from Juvenile Diabetes Research Foundation to perform translational studies in type-1 diabetes utilizing his work showing that a new immunomodulatory therapy developed by his laboratory can induce regeneration in pancreatic islets in T1D. This has been quite a year for Dr. Sharma!

Research Highlights - Clinical Science



Julia Scialla, MD

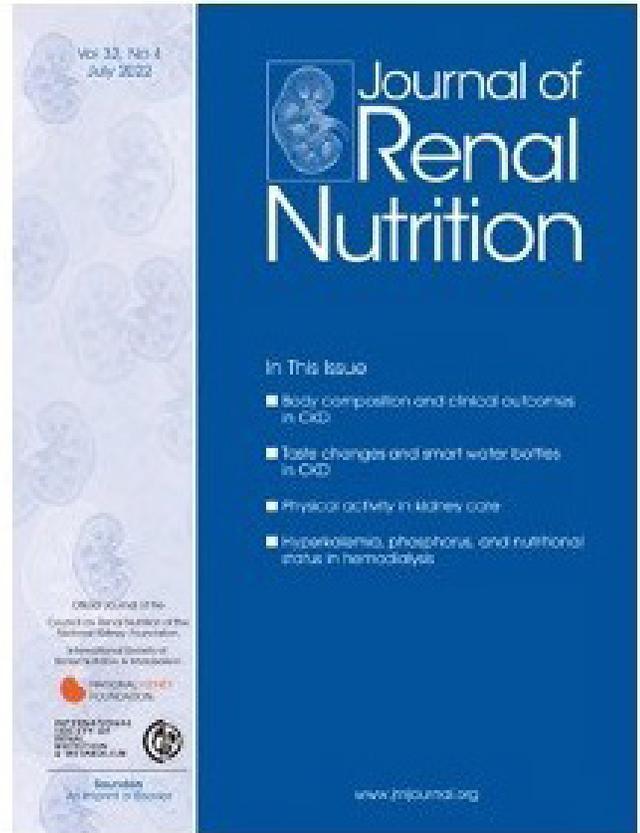
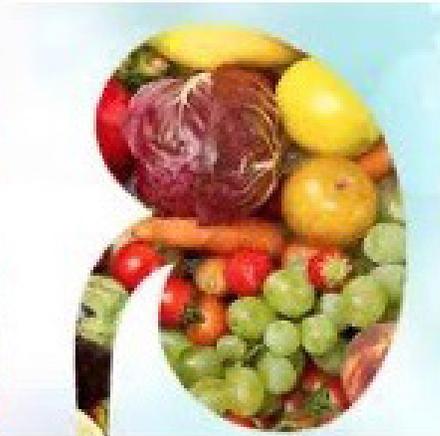
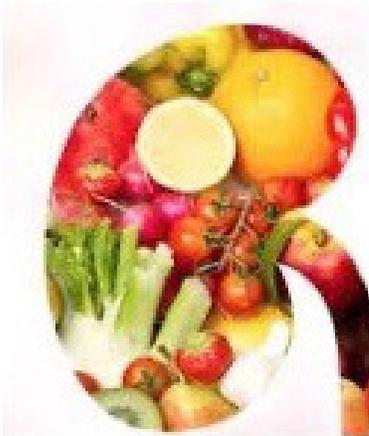
Dr. Julia Scialla

Recently July 27, 2022, Dr. Julie Scialla, Associate Professor, and Shirin Pourafshar (former fellow in nephrology) had their important research highlighted in UVA Today as well as across 200 news media outlets. I want to bring your attention once again to this critical study. Using the National Health and Nutrition Examination Survey conducted between 1988 and 2018, Dr. Scialla and co-workers analyzed data on eating patterns of fruits and vegetables. They found that patients with chronic kidney disease included fewer fruits and vegetables in their diets, implying that consuming fruits and vegetables is strongly linked to good health. Their findings were published in the Journal of Renal Nutrition and have received widespread national news coverage. "Consuming more fruits and vegetables is strongly linked to health in many different diseases," UVA Health kidney specialist Dr. Julia J. Scialla said. "We worry about overall health effects when we see patients with chronic kidney disease consuming low levels of fruits and vegetables." blood pressure, heart disease, and stroke. "We hope that through this study and similar studies, we will be able to encourage both healthy individuals

and patients with chronic kidney disease to reconsider their intake of fruits and vegetables by incorporating greater varieties and amounts of unprocessed or minimally processed fruits and vegetables into their everyday diets," said Shirin Pourafshar, a nutritionist and dietitian who was co-author of the study.

The Nephrology Clinical Research Center (NCRC), which is led by Dr. Julie Scialla (Medical Director) and Dr. Igor Shumilin (Operational Director), continues to make significant progress. The NCRC is onboarding new trials in hypertension, lupus nephritis, focal segmental glomerulosclerosis, transplant immunosuppression, and polycystic kidney disease. The team leads investigator-initiated studies in ultrasound and the ketogenic diet and numerous data science projects on bone and mineral metabolism, nephrotic syndrome, and COVID treatments.

Eating More Fruits and Veggies Could Benefit Your Kidneys



Research Highlights - Collaborative Science



Dr. Michael Brown

Research success depends on developing strong collaborations in other disciplines. A new Commonwealth Health Research Board (CHRB) Grant Award was made to Michael Brown, Medicine, Nephrology, Coleen McNamara (Medicine, Cardiovascular), and Vineela Bontha (Medicine, Cardiovascular) for their research on ‘Risky variants in human cardiovascular disease.’ The research project will investigate whether genetic variation in the glucocorticoid-induced tumor necrosis factor receptor-related protein (GITR) expressed by NK cells and other lymphocytes may affect the development or progression of atherosclerosis, a major cause of cardiovascular disease and a significant contributor to disability and death in Virginia. Congratulations to Mike, Coleen, and Vineela!

Michael Brown, PhD

Research Highlights - Training Focus

Our program in nephrology focuses on reaching out to earlier trainees from high school to postdoctoral fellows to engage trainees in meaningful kidney research with the hope that this will be an enduring opportunity. We have trained high school students during the summer with students from as far away as New York to conduct research in Nephrology at UVA. We have two additional programs: 1) VA K Tutor geared toward undergraduate students and 2) IGNITE KUH, which targets pre and postdoctoral fellows.

DIVISION OF NEPHROLOGY

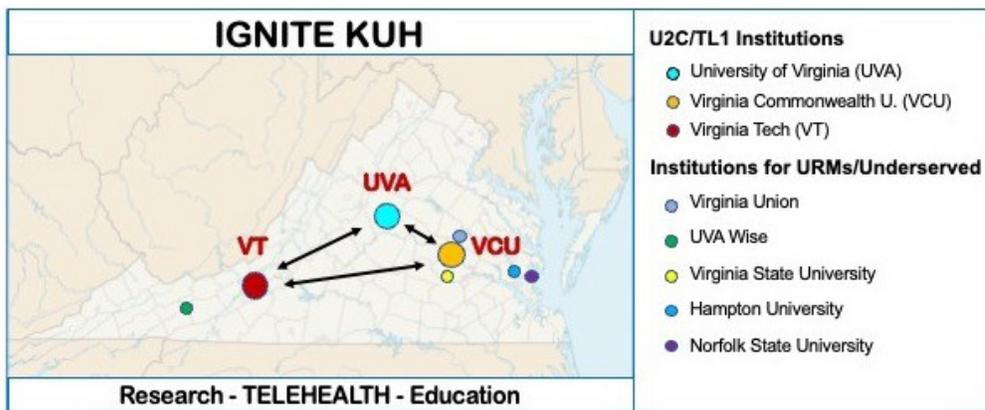
VA K Tutor

The VA K Tutor (Virginia Kidney Technology Development Research Education Program), UVA Nephrology undergraduate training program (NIH1 R25 DK124918: PI Sharma, Okusa, Gifford), now in its second year, provides an immersive research and education experience for technology-oriented undergraduate students to participate in cutting-edge research in kidney diseases, to generate innovative solutions for promoting kidney health. Four were from UVA, and one came from VCU. They enthusiastically immersed themselves in basic research and clinical rotations for ten weeks and were a wonderful addition to the Division. This NIH-sponsored training grant also allows for 6-12 months of additional research, and we welcome their continued participation and investigation of their chosen areas of interest.



Next Generation NIH VA K-TUTOR - Kidney Researchers from UVA, MIT, and Virginia Tech

IGNITE KUH



A State-Wide Program to Train Next Generation KUH Researchers

We have recently completed our first year of a newly funded collaborative training grant (UVA PI's Okusa, Portilla, Brown). The NIH-funded Integrated Virginia Research Training Centers in Kidney Urology and Hematology (IGNITE KUH; 1U2C) DK129500/1TL1DK132771) is based on a collaborative partnership involving three main research training centers in the Commonwealth of Virginia and is committed to developing the next generation of KUH researchers. The

three IGNITE KUH institutions are the University of Virginia (UVA), Virginia Commonwealth University (VCU), and Virginia Polytechnic Institute and State University (VT). Unique IGNITE KUH Programs will foster a growing community of trainees with extensive networking opportunities across the Commonwealth while also providing professional development resources to ensure our trainees acquire the skills needed to pursue research as a career. Integral to IGNITE KUH is our outreach to undergraduate students throughout the Commonwealth, including Historically Black Colleges and Universities (Virginia Union, Virginia State U., Hampton University, and Norfolk State U.) and rural universities (UVA-Wise).

The program promotes interdisciplinary research that includes fundamental and translational research, as well as patient-oriented clinical research, and is targeted to highly-motivated predoctoral students and postdoctoral fellows (MD DO PhD or their equivalent). The IGNITE mentoring team includes outstanding physician-scientists and basic science investigators from the Departments and Centers of the three institutions. The program provides basic/fundamental training and didactic instruction in multiple disciplines, including molecular, cellular, and transgenic technologies, immunology, functional genomics, and novel imaging technologies, focusing on kidney, urology, and hematology. The patient-oriented clinical research program provides clinical investigation, epidemiology, biostatistics and data sciences training.

Research Paper Highlights

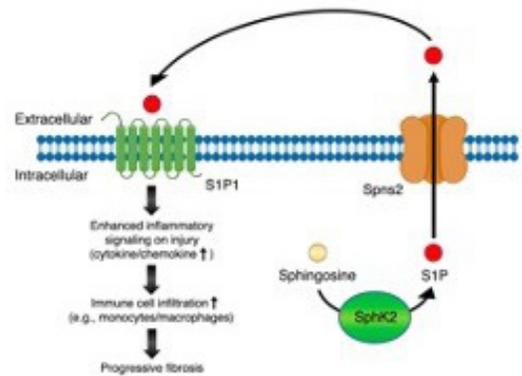
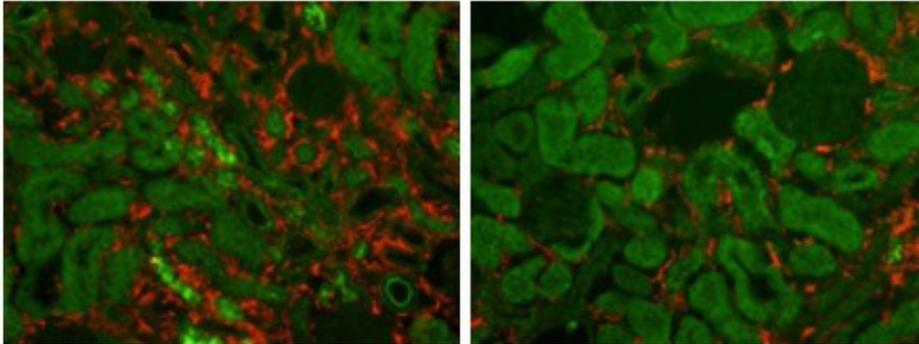
Former postdoctoral fellow Shinji Tanaka in Mark Okusa's laboratory has published a significant discovery in Science Translational Medicine on a signaling pathway that may play a crucial role in kidney fibrosis. Here Shinji and co-workers demonstrate that perivascular sphingosine 1-phosphate (S1P) signaling promotes kidney inflammation and fibrosis, which can be reversed by inhibiting the S1P transporter, spinster homolog-2 (Spns2), suggesting a different approach to treating kidney disease progression.

SCIENCE TRANSLATIONAL MEDICINE | RESEARCH ARTICLE

KIDNEY DISEASE

Sphingosine 1-phosphate signaling in perivascular cells enhances inflammation and fibrosis in the kidney

Shinji Tanaka^{1,2}, Shuqiu Zheng¹, Yugesh Kharel³, Russell G. Fritzemeier⁴, Tao Huang³, Daniel Foster⁴, Nabin Poudel¹, Eibhlin Goggins¹, Yusuke Yamaoka¹, Kinga P. Rudnicka¹, Jonathan E. Lipsey¹, Hope V. Radel¹, Sophia M. Ryuh¹, Tsuyoshi Inoue¹, Junlan Yao¹, Diane L. Rosin³, Susan R. Schwab⁵, Webster L. Santos⁴, Kevin R. Lynch³, Mark D. Okusa^{1*}



Research Trainee Highlights

Congratulations to the following winners at this year's Research Scholar's Day which was in May.

Carey, Marshall, Thorner Scholar's Day

Jessica Annis (Poster) from Mike Brown's Lab

Aspen Robinson (Poster): from Sanja Arandjelovic's lab

Immunology Research Day

Shuhei Kuwabara (Oral presentation): Okusa lab

Nabin Poudel (Poster): Okusa lab

FOLLOW UVA NEPHROLOGY ON TWITTER

Awards and Recognition

Our faculty and staff continue to achieve excellence in their respective areas. This is a testimony to their hard work and effort despite COVID barriers. This year several individuals were recipients of the *Department of Medicine Excellence Awards*, including:

Daphne Knicely, MD, recipient of the *Clinical Excellence Award*

Uta Erdbrügger, MD, recipient of the *Educator Excellence Award*

Mary Lenahan, recipient of the *Outstanding Staff Contributor Award*

Robert Young, recipient of the *Administration Excellence Award*

Jitendra Gautam, PhD, recipient of the *Outstanding Staff Contributor Award*

Amanda Renaghan, MD, recipient of the *Award for Excellence in Clinical Care*



Rasheed Balogun, MBBS, was appointed Harrison Distinguished Teaching Professor of Nephrology. This is a tremendous honor and well deserved. Rasheed was elected to the University of Virginia Academy of Distinguished Educators in 2005, and selected to be one of our four foundation College Deans. As part of the Next Generation medical education curriculum initiated by the School of Medicine in 2010. He served in this role for five years; together with three other deans, Rasheed contributed significantly to our undergraduate medical education mission by taking on the dean of student affairs role. He has created a first-of-its-kind independent Therapeutic Apheresis Academy. This multidisciplinary focused annual educational conference attracts an international audience. It has since been emulated by others, writing clinical guidelines used in treatment decisions internationally and authoring chapters, and editing textbooks in this niche field. The endowed chair is a well-deserved honor!

Corey Cavanaugh, DO, has been appointed a member of the 2023 ASN Kidney Week Education Committee (a.k.a. Program Committee) in Philadelphia. This committee is responsible for the educational content (sessions and abstracts) of Kidney Week. This is a great honor and a testimony to Corey's emerging reputation and impact in the field of glomerular disease. Congratulations Corey!

Karen M. Warburton, MD, received a Distinguished Mentor Award from the American Society of Nephrology for 2022. This is a highly competitive award hosted by the American Society of Nephrology with over 20,000 members. Dr. Warburton has had a lifelong commitment to mentorship and faculty development. She has impacted many trainees and faculty members locally and nationally through direct interactions, or her faculty/trainee program development. She is a stalwart advocate for all faculty, especially women faculty. Congratulations Karen!

Alden Doyle, MD, who has been appointed Chair of *UNOS Operations and Safety Committee* effective July.

Uta Erdbrügger, MD, who will co-chair the annual meeting of the *International Society for Extracellular Vesicles* in May, 2023.

Congratulations to **Mitch Rosner, MD** who was a recipient of the Thomas Jefferson Award, the highest honor given to a member of the University of Virginia community. He is credited with developing strategic programs as Chair of the Department and his unparalleled work in navigating the entire university safely during the COVID pandemic by establishing testing management and policy.

"Mitch led the infrastructure changes necessary to care for COVID patients, organized and managed for surge capacity, quickly launched a telehealth initiative, and led the creation of community-based testing and vaccination centers," ~President Jim Ryan

"What he did and how he did it drove the effectiveness of this University's response to a once-in-a-lifetime challenge....He is thoughtful, level-headed, good-humored, invaluable, wise, even-keeled, humane, and humble. A consummate servant leader." ~Provost Liz Magill

DIVISION OF NEPHROLOGY

Nephrology Awards, Grants, and Achievements

Emaad M. Abdel-Rahman	LabCorp Drug Development, Inc.	Clinical Evaluation of HemoCare Hemodialysis System for Home Nocturnal Hemodialysis
Emaad M. Abdel-Rahman	Outset Medical, Inc.	Prospective, multicenter, post-market study of the Tablo Hemodialysis System for the treatment of participants with end stage renal disease in the home setting
Sanja Arandjelovic	Arthritis National Research Foundation	Removal of Apoptotic Cells in Inflammatory Arthritis
Rasheed A Balogun	International Society of Nephrology	ISN Sister Renal Support Center
Michael G Brown	Commonwealth Health Research Board	Risky variants in human cardiovascular disease
Tushar Chopra	CinCor Pharma, Inc	A Randomized, Double-Blind, Placebo-Controlled, Multicenter, Parallel-Group, Dose-Ranging Study to Evaluate CIN-107 for the Treatment of Patients With Uncontrolled Hypertension and Chronic Kidney Disease
Alden Michael Doyle	Joslin Diabetes Center Inc.	Kidney Transplant Outcomes and Apol1 Consortium
Alden Michael Doyle	Drexel University	Identifying Healthy and High-Risk Weight Loss Phenotypes to Optimize Obesity Management in End Stage Kidney Disease
Uta Erdbruegger	University Of Maryland, Baltimore	Dissecting the role of dynamic epigenome prompting pathways leading to kidney allograft fibrosis
Uta Erdbruegger	American Diabetes Association	Urinary extracellular vesicles characterize early diabetic kidney disease phenotypes
Sana F Khan	Reata Pharmaceuticals, Inc.	A Phase 3 Trial of the Efficacy and Safety of Bardoxolone Methyl in Patients with Autosomal Dominant Polycystic Kidney Disease
Sho Morioka	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases	Removal of apoptotic cells during acute kidney injuries-Travel
Sho Morioka	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases: P&F Grant University of Alabama at Birmingham	Boosting Removal of Apoptotic Cells During Acute Kidney Injury
Sho Morioka	Yamada Bee Company, Inc.	Establishment of new methods for improving human health using propolis and phagocytosis promotion model
Mark D Okusa	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases	Integrated Virginia Research Training Centers in KUH (IGNITE KUH)
Mark D Okusa	The Bower Foundation	Nephrology Visiting Professor and Invited Speaker Exchange Program
Mark D Okusa	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases	Sphingolipids in Acute Kidney Injury and Disease Progression
Mark D Okusa	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases	Neuroimmune Regulation of Acute Kidney Injury
Mark D Okusa Rahul Sharma William Guilford	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases	The University of Virginia Kidney Technology Development Research Education Program (VA K-TUTOR)
Didier Portilla Michael Brown	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases.	Integrated Virginia Research Training Centers in KUH (IGNITE KUH) - TL1
Didier Portilla	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases	Role of intracellular complement activation in kidney fibrosis
Swati Rao	NATERA, INC.	Use of dd-cfDNA in Multi-Organ Transplant Rejection Detection (MOTR)

DIVISION OF NEPHROLOGY

Nephrology Awards, Grants, and Achievements

Julia Scialla	Duke University	Predictive Analytics in Hemodialysis: Enabling Precision Care for Patient with ESKD
Julia Scialla	University Of Pennsylvania	Transformative Research in Diabetic Nephropathy (TRIDENT) Clinical Trial
Julia Scialla	U.S. NIH Institute of Diabetes & Digestive & Kidney Diseases	Integrated Mineral Metabolism Treatment Strategies in Patients on Dialysis
Julia Scialla	Virginia Department Of Health	InnoVAte: Telehealth for Prevention and Management of Chronic Diseases
Rahul Sharma	Slate Bio, Inc.	Slate Bio IL233 Variants
Rahul Sharma	Juvenile Diabetes Research Foundation International	Novel Therapeutic Cytokine for T1D
Rahul Sharma	Virginia Biosciences Health Research Corporation	Development of a First-in-Class Bifunctional Fusion Cytokine Therapy that Targets Tregs and Tissue Resident Tregs for the Treatment of Lupus and other Autoimmune Diseases
Rahul Sharma	Manning Fund for COVID-19	Immune and glycemic dysregulation from COVID 19 in Diabetes
Karen Warburton	William and Sandra Bennett Clinical Scholars Program – mentor to the PI -	Development and validation of tools to assess and coach nephrology fellows' clinical reasoning

New Faculty



Korshie Dumor, MD MPH, will join the Division of Nephrology on September 1, 2022, as an Assistant Professor of medicine. He was previously Assistant Clinical Professor of Medicine in the Division of Pulmonary, Critical Care, and Environmental Medicine at the University of Missouri. He received his Bachelor of Medicine and Bachelor of Surgery (MBChB) in 2002, MPH at Harvard School of Public Health, Harvard U. Boston, Mass in 2005, Residency training in Medicine at Harlem Hospital, Columbia University College of Physicians and Surgeons 2010, Fellowship Training in Nephrology and Hypertension, University of Missouri, Columbia, MO, 2018 and Pulmonary Critical Care fellowship training in the Division of Pulmonary, Critical Care and Environmental Medicine, University of Missouri. He is Board Certified in IM, Nephrology, and Critical Care. He also worked in an internal medicine practice at Mercy Clinic and Phelps Health, Rolla, MO, from 2010-2016. We are excited that he will help build ICU Nephrology at UVA and contribute to research and education.

Bobak Sharifi, MD, is no stranger to all of you. Bobak was chief fellow in the Division of Nephrology at UVA. Bobak will join the Division of Nephrology as an Assistant Professor of Medicine. Bobak received his medical degree from Xavier University School of Medicine, Oranjestad, Aruba, followed by residency training at Virginia Tech Carilion System. He joined our program as a clinical fellow, and because of his outstanding performance, he was appointed Chief Fellow. Dr. Sharifi's primary responsibility will be to develop a robust clinical nephrology practice in the Culpeper region. He will care for ESRD patients in UVA HS dialysis units and CKD patients in outpatient CKD clinics in Orange and Culpeper. We are excited about the growth potential up the 29 corridors, and we are thrilled and confident that Bobak is the right person to spearhead this initiative. We are delighted that Dr. Sharifi will be joining our Division.



Welcome To The World



Congratulations to Nabin Poudel and Binu Sharma who welcomed son Neerav Poudel who was born on June 13, 2022. He likes being cozy in his parents' arms, enjoys music, and follows movement and tries to lift his head while on his tummy.



Congratulations to Amanda and Sean Renaghan who welcomed daughter Bridget Madeline Renaghan who was born on December 20, 2021. She is an absolute joy, and she is already her brother Ryan's best friend.



Congratulations to Corey and Brittany Cavanaugh who welcomed son Maxwell Harrison Cavanaugh who was born on February 21, 2022. He has his mother's eyes and his father's enthusiasm for swimming.



Congratulations to Joseph Saabiye and Jeanne Kamal who welcomed son Oliver George Saabiye who was born on November 28, 2021. He's already saying his first word "Baba" (Arabic for daddy) and will always make sure to greet you with a big smile.

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STAFF PROFILE - Jacqueline McCauley



Tell us a little bit about yourself.

I've been a permanent employee at UVA for two years after a long stint working in both the customer service and hospitality/tourism industry.

Why Healthcare?

I love that my position here encompasses and exposes me to the trifecta of education, research, and healthcare. I've always been fascinated by the amount of work that goes into advancing medicine and technology. My grandmother also worked as a secretary within UCSD's Research Division of Nephrology decades ago. She loved her position and was over the moon when I told her I was offered the same position within UVA's division!

"When I worked for the division of nephrology, the nephrologists, clinical coordinators, and more were such a special bunch," she fondly reminisced. This cannot be more true for our team here at UVA.

What brought you to Charlottesville?

I've lived in Virginia most of my life but was drawn into finally moving out of a small town and into a more metropolitan area. I also really enjoy the city's many fantastic eateries and artsy atmosphere. In addition, my husband was born and raised here and had always wanted

to return someday. We couldn't be happier.

What excites you about your work?

I love learning not only about what is going on with various studies but also learning about myself. As someone who has had type 1 diabetes for a long time, I know the importance of taking care of your kidneys. The American Diabetes Association also does close work with our division which is extra cool!

What are you usually doing on the weekend?

On a typical weekend, you can usually find me tending to my garden, passionately playing my piano, and laughing at reality TV with my husband.

What about you would surprise us?

I am a quiet thrill-seeker (sorry, Mom!) who loves great heights, hot air balloon rides, and ziplining over crocodiles (something I have done before and would do again)! A special shout-out to Gatorland in Florida for giving me that last opportunity.



Do you collect anything?

I do not collect anything presently; however, I own over 200 Beanie Babies from my childhood when I did collect them on a regular basis!

What is a talent or skill you don't have that you wish you did?

I wish I had the ability to dance well!

What is the best advice anyone ever gave you?

The best advice anyone's ever given me is "There's no point in worrying about what cannot be changed; only focus on what you can change."



FELLOW PROFILE - Bobak Sharifi



Tell us a little bit about yourself.

I was born and raised in VA and have been a Virginian my entire life. I've been at UVA for two years, and after completing my Nephrology Fellowship, I am pursuing a career in academic nephrology. I'm grateful for the opportunity to stay here and give back to my community. I love my family and my dog Bubba!

Why Education?

The discovery of medicine for me was personally fascinating. Early in my journey, I knew that forwarding medicine to the next generation was one of the most important aspects of being a physician. Engaging with learners is a unique experience, and as an educator, I take great responsibility for nurturing the growth of our future doctors.

What brought you to Charlottesville?

My family is close by, and I love Virginia!

What excites you about your work?

Developing meaningful connections with a variety of patients, interesting physiology, and the opportunity to educate/learn. This is why I love being a part of UVA.

What are you usually doing on the weekend?

Barbecues with the family, pickup basketball, and watching MMA/boxing events.

Favorite activity spot?

Tail of the Dragon.

Who is the person you admire most, and why?

My brother Sasha; seeing him overcome challenges at a young age gave me a no-excuse mentality. We've gone through our medical journey together, and I would not be here without him. He is currently training in cardiology, and we plan to cultivate a cardio-renal practice in the near future.

What is the best advice anyone ever gave you?

Own your mind.



What's the most unusual thing you have ever eaten?

Just this past year, the renal nurses fed me a cricket... delicious!

Do you collect anything?

Basketball and baseball cards.



FELLOW PROFILE - Faeq Husain Syed



Tell us a little bit about yourself.

I was born and raised in Germany as the youngest of three children. I am a Clinical Nephrologist, and Pulmonologist at the University Hospital in Giessen, a small town near Frankfurt am Main. Since 2015, I have been working as a clinician-scientist, which has broadened my horizon in many ways. The renowned research and welcoming faculty at UVA brought me to Charlottesville for one year.

Why Healthcare?

I was always interested in science and how things work, but probably seeing my late grandfather passing away from a preventable disease made me pursue a career in healthcare, and it has been one of my best life decisions. Being a physician at the bedside gives me a real-world understanding of patient's needs, and this understanding guides my research. Research also allows me to interact with people worldwide and be constantly challenged to question my premises and produce new knowledge.

What excites you about your work?

As cliché as it sounds, true privilege and honor come with caring for patients and helping them through difficult times. Working with healthcare providers and scientists creates a stimulating environment to discover, innovate, and solve patient care problems.

What do you consider to be your greatest achievement outside the professional realm?

Finding the perfect wife to spend my life with and making some lifelong friends.

Next life?

Open a Pâtisserie in Paris.

What are you usually doing on the weekend?

Outside work, I spend most of my time with my family and enjoy the outdoors.

What is the one thing you always have in your fridge?

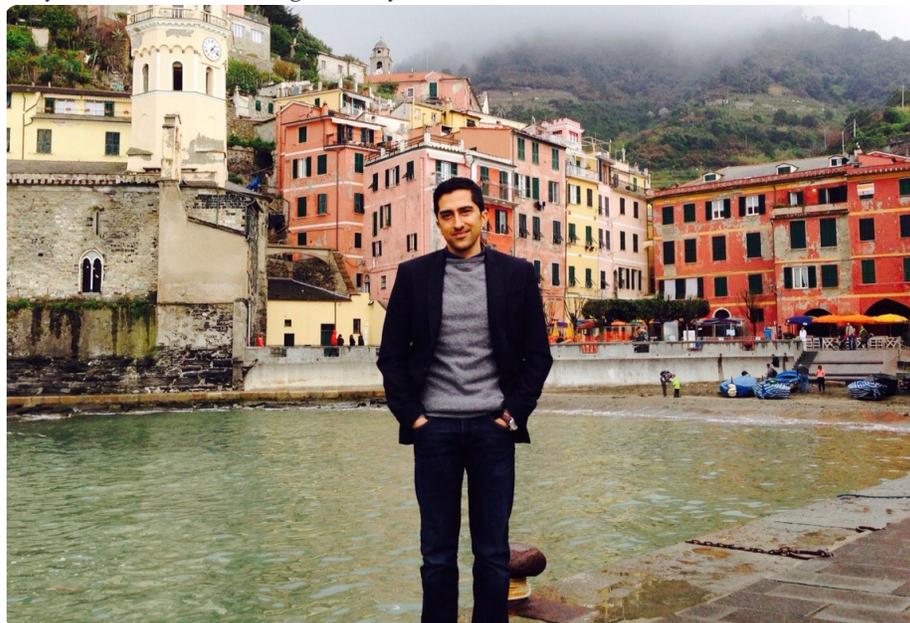
Kinder-Riegel and Milch-Schnitte, both popular snacks sold in Europe – happy that they are also available in the US.

Who is the person(s) you admire most, and why?

My parents for their constant love and support; my wife for her kindness, thoughtfulness, and her caring ways.

What is the best advice anyone ever gave you?

There is a story behind every person. Listen. Be humble. Don't treat people as bad as they are; treat them as good as you are.



FACULTY PROFILE - Catarina Regis

Tell us a little bit about yourself.

Before joining UVA in January 2022, I worked as a nephrologist in private practice in Richmond (seeing patients at the office and several hospitals and working as a medical director of dialysis clinics).

Why Healthcare?

I enjoy taking care of people. Being able to help patients manage their health issues brings me fulfillment and happiness.

What excites you about your work?

The opportunity to work in a major academic institution while practicing what I love.

What do you consider to be your greatest achievement outside the professional realm?

Being a full-time working mom and my daughter's best friend.

What are you usually doing on your time off?

I enjoy spending time with my family and pets at home or outdoors, listening to music, taking pictures, and traveling to different destinations.



How did you meet your partner?

In our hometown in Brazil, a couple of years before we both moved to the USA. We have been together for thirteen years now and have an 8-year-old daughter (Julia): our best creation together.

What is your favorite vacation/activity spot?

Salvador, Bahia, Brazil (where I can spend time with my family and lifetime friends)

Who is the person you admire most, and why?

I admire my dad and mom equally for raising five kids and being wonderful parents (always being there for us despite working full-time). My siblings and I are always in touch with them and with each other while living on different continents. Our bond and friendship are a treasure to me.

What is the best advice anyone ever gave you?

Always be true to yourself and do what you love.

What is a talent or skill you don't have that you wish you did?

I would love to speak more languages and type my notes faster.

What's the most unusual thing you have ever eaten?

An alligator dish in Louisiana

Do you collect anything?

Postcards from the places I have visited

What was your first job, and how old were you?

I was a high school tutor when I was fifteen. I was able to continue this during Medical School too. Teaching has been a passion since I was young. I first found out when I was around seven that I enjoyed teaching people with little or no access to school. I taught elementary school subjects on my dad's farm during summer vacation.

