

NEPHROLOGY FELLOWSHIP



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MEDICINE**

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UC DAVIS MEDICAL CENTER

The University of California at Davis is part of the 10 campus UC system, regarded as one of the top educational systems in the world. UC Davis is one of 6 UC campuses with a School of Medicine and Medical Center. The UC Davis Medical Center campus, located in Sacramento, the Capital of California, provides health care for the region and serves as a tertiary referral center for much of Northern and Central California and Nevada. The hospital has 646 licensed beds, with a robust health system that supports almost 32,000 hospital admissions and 1 million clinic visits a year. We are a vital part of California's healthcare with an expansive coverage area of over 33 counties and 6 million residents.



School of Medicine, School of Nursing, and Medical Center Faculty, Staff, and Students
(<https://health.ucdavis.edu/about/facts-figures>)

Faculty and Physicians	2,565
Residents and Fellows	1,007
Students	1,081
Nurses and other Staff	17,424

The UC Davis Medical Center is consistently named one of the nation's top hospitals by US News and World Report in multiple specialties. This includes a ranking in kidney care in 2020, when national adult nephrology rankings for hospitals were last available. It is the region's leading referral center for the most seriously ill and medically complex cases. The UC Davis Health System supports a large nationally-ranked School of Medicine and an exceptional School of Nursing. The UC Davis School of Medicine places in the top 3 for the Most Diverse Medical Schools and top 10 in Primary Care.



UC Davis Nephrology is a division of the Department of Internal Medicine which supports over 140 residents and fellows among all major medical subspecialties. There are presently 15 full-time faculty members in the Nephrology Division and 5 transplant nephrologists. The Division continues to grow, with recent new faculty bringing exciting clinical and research expertise to both General Nephrology and Transplant Nephrology. UC Davis also has **the only ASDIN HVA Accredited Interventional Nephrology fellowship in California**, as well as an **AST Accredited Transplant Nephrology fellowship**.

UC Davis Health is a hub for basic science and clinical research in several areas of advanced medicine. In 2022, the entire UC Davis Health system generated extramural funding of \$396 million. Our Nephrology faculty are a key part of this and have been involved in numerous projects, including those that are NIH-funded. Examples of ongoing activity include bench-side investigations of diabetic nephropathy, kidney fibrosis, and physical and muscle function in CKD. Furthermore, multiple faculty are involved in large clinical epidemiological studies and medical education endeavors. The Division has participated as a major study site for various significant NIH studies in kidney disease, including the HEMO study, the Frequent Hemodialysis Network trial and the SPRINT trials.

THE FELLOWSHIP PROGRAM



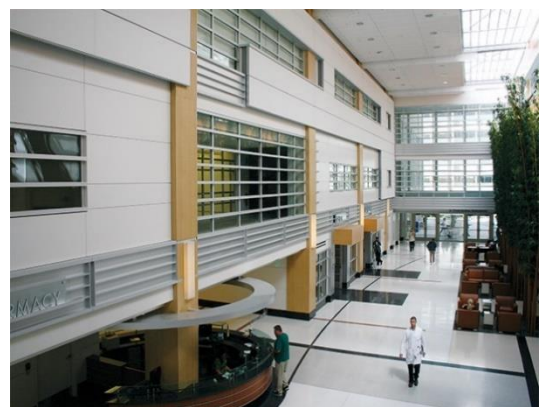
The nephrology fellowship at UC Davis Health is a 2 year ACGME-accredited program based at the UC Davis Medical Center in Sacramento, along with additional clinical activities at the Sacramento Veterans Affairs (VA) Medical Center and affiliated outpatient dialysis centers in Sacramento. Our training program accepts 3 fellows per year. Our fellows have continued on to various successful academic, community, and private practice nephrology careers. We take pride in the teaching excellence of our faculty who are consistently ranked among the best educators in the Department of Medicine.

Our clinical training is extensive and includes as core components: inpatient consultative nephrology, longitudinal outpatient clinic, ambulatory dialysis experience involving hemodialysis and home dialysis patients (PD and Home Hemodialysis), kidney transplantation, interventional nephrology, apheresis, and research opportunities. Various other elective experiences in kidney stone disease, glomerular disease, palliative care, kidney pathology, and vascular access surgery are also available, among a multitude of options depending on a fellow's individual interests. The University owns and operates the Medical Center which serves both as a University referral hospital and as a neighborhood hospital, providing care to a diverse population. The Medical Center has a broad range of residency and subspecialty training programs. Nephrology fellows interact extensively with medical students, interns, residents, and fellows in other subspecialty programs. Our Nephrology elective offerings are among the highest-rated rotations for both medical residents and students.

UC DAVIS MEDICAL CENTER

Patients on the nephrology consult service at UC Davis Medical Center exhibit a wide array of renal pathology. As a Tertiary referral center with robust medical and surgical ICUs, an organ transplant center, a Level 1 Trauma Center, and a regional Burn Center, fellows are involved in the care of high-acuity patients. Our acute care modalities include IHD, SLED, CRRT and PD. At UC Davis, 2 fellows are assigned to the inpatient teaching consultative service, alternating days for providing new consults. Weeknight coverage is handled by a separate fellow on night-float via home call. To ensure ample teaching, an attending-only service operates on weekdays independent of fellows. With a teaching patient census ranging daily from 25-40 patients (split between 2 fellows), each fellow is capped at 18 patients at end of day with any excess handled by faculty. On weekends, fellows share consult responsibilities and call coverage equally. The main UC Davis hospital is the only clinical site where fellows cover weekends and evenings.

At our state-of-the-art acute dialysis unit, we provide unparalleled patient care. Our centralized unit is staffed by a team of highly-skilled dialysis nurses and technicians and is equipped with the latest technology and resources. The unit features a spacious fellow conference room with audio-visual equipment, a microscope and ample work space, allowing an environment conducive to learning and collaboration. We are dedicated to the highest standard of care and continually strive for excellence, utilizing a comprehensive treatment database to monitor quality control and provide opportunities for clinical research.



SACRAMENTO VETERANS AFFAIRS MEDICAL CENTER

At the VA Medical Center Hospital, patients receive top-notch care for a wide range of renal diseases. The VA Mather Field Medical Center in Rancho Cordova, located just 11 miles from UC Davis Medical Center, benefits greatly from the expertise of joint UC Davis and VA Faculty who provide both outpatient and inpatient specialty care. As a fellow at the VA, one has the opportunity to gain valuable hands-on experience with a smaller consult census ranging from 8-12 patients, allowing for a wealth of valuable ambulatory clinic exposure. There is no overnight or weekend call for the VA. With the guidance of 6 experienced VA nephrologists, fellows have the opportunity to develop their skills and knowledge in a supportive and dynamic environment.



TRANSPLANT TRAINING

The UC Davis Kidney Transplant Service boasts a highly active and successful program, consistently ranking in the top 10 in the nation in transplant volume. Our fellows have ample opportunities to work with both Transplant Nephrology and Transplant Surgery faculty during fellowship. A focus is placed on the ongoing care of post-transplant patients, with fellows playing a key role in the follow-up and new patient evaluation clinics. In addition, fellows gain experience in performing renal transplant biopsies and review the findings in weekly pathology conferences. Fellows are expected to present at one transplant grand rounds during their second year. They also participate in the recipient and donor evaluation committees each block that they are on transplant. Additional longitudinal transplant experience is found at both the VA outpatient and UC Davis renal clinics for patients with longer-term post-transplant follow-up. There is no overnight or weekend call for the transplant service. UC Davis Health is proud to offer a post-graduate **AST Accredited Transplant Nephrology fellowship** as well.

OUTPATIENT DIALYSIS EXPERIENCE

Our talented nephrologists offer exceptional care to over 500 long-term dialysis patients at multiple clinics. Fellows gain hands-on experience in treating dialysis patients under the guidance of skilled faculty. Importantly, home dialysis, both peritoneal dialysis and home hemodialysis, is an emphasized aspect of the fellowship training throughout the 2 years.

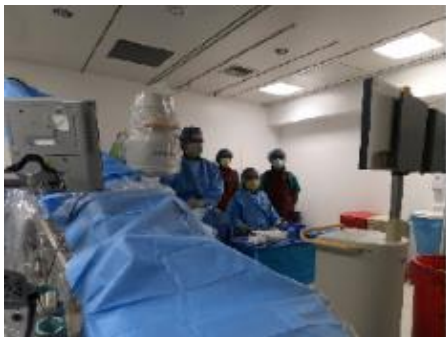
Fellows work in a multidisciplinary environment with nurses, dietitians, and social workers to provide comprehensive care for new and chronic dialysis patients. Our ambulatory clinics are equipped with expert CKD care managers and health education teams to assist in transitions.

To further educational and professional development, fellows have dedicated time for self-study, wellness, and other scholarly activities. The program also offers insights into what it takes to become a medical director of a dialysis unit, including focus on water treatment, quality improvement oversight, and patient/staff safety.

APHERESIS EXPERIENCE

Nephrologists may find themselves managing plasmapheresis or apheresis in their practices. Our fellows have an option for an apheresis elective twice yearly, working with the Department of Pathology and Laboratory Medicine which manages apheresis at UC Davis. There is no overnight or weekend call for the apheresis service.





INTERVENTIONAL NEPHROLOGY EXPERIENCE

Our program offers a unique and unparalleled learning experience by having its own Interventional Nephrology program. Established almost two decades ago, our expert team performs about 700 procedures a year, ranging from the placement of hemodialysis catheters to AV access thrombectomy in a dedicated state-of-the-art vascular access suite. The team also places infusion and apheresis catheters for various services, including hematology-oncology, with precision and care.

Under faculty guidance, fellows will master the art of physical examination of AV shunts, learn to identify potential problems and understand the diagnostic studies required. With hands-on patient experience, including ultrasound guided procedures for vascular access and kidney biopsies, fellows will gain practical skills and confidence. The Center for Virtual Care on the UC Davis medical campus also offers additional training through simulated procedures. For those who demonstrate proficiency, there is even opportunity to directly participate in performing angiograms and angioplasties during their time on the interventional service. There is no overnight or weekend call for the interventional nephrology service.

For those interested further advancement in the field, UC Davis offers a post-graduate **ASDIN HVA Accredited Interventional Nephrology fellowship**.



KIDNEY CLINICS



Fellows achieve a diverse, longitudinal outpatient continuity experience in the clinics at the UC Davis Ambulatory Care Clinics and in the VA renal clinics. These clinics provide a unique learning environment where fellows are the primary consultants for a diverse patient population, encompassing the full spectrum of kidney diseases, example such as acute kidney injury, advanced CKD, inherited kidney diseases, electrolyte disturbances, resistant hypertension, and chronic transplant follow-up as examples. UC Davis has a highly active and well-established **Glomerular Disease Clinic** in which our fellows participate.

All clinics are supervised by dedicated core group of faculty, and all clinics employ full EMR technology for seamless and efficient patient care. To ensure maximum focus on learning opportunities, the fellow clinic schedule is structured on a block basis. During the inpatient UC Davis rotation, fellows concentrate solely on their hospital patients and the teaching opportunities that they entail. Conversely, during outpatient experiences, fellows then have dedicated time to attend to their patient panels and hone outpatient skills.

On average each fellow is assigned approximately 50 ambulatory continuity half-day clinics per year, at the UC and VA nephrology clinics combined.

Additional clinics the fellows can participate include a **multidisciplinary kidney stone clinic, palliative care clinic, or other specialty clinics** during elective time for more ambulatory experiences.



TEACHING AND SCHOLARSHIP

UC Davis Nephrology offers an intensive teaching program for rotating internal and visiting residents and students who choose the nephrology elective.

Our fellows play a huge role in the education of these other trainees. Fellows may also assist in small group discussion sessions for medical students during their Nephrology course.

Protected formal didactics, led by faculty, include and are not limited to:

- Weekly fellows conference covering core nephrology topics
- Biweekly interactive fellows conference and review of prior weeks' discussions
- Weekly Nephrology Grand Rounds
- Biweekly Nephrology Journal Club
- Monthly Kidney Pathology Conferences

Additionally, fellows have protected weeks to attend the following as part of the set curriculum for the year.

1st year fellows:

- **Intersession** (late Winter): Hosted onsite at UC Davis and designed as an immersive academic week covering high yield nephrology topics and landmark studies.

2nd year fellows:

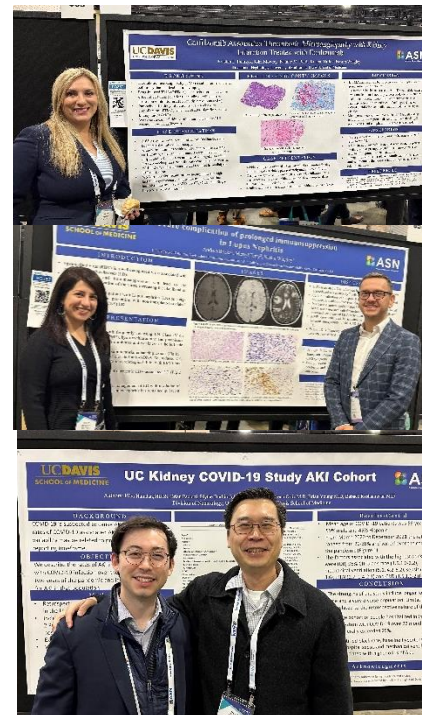
- **Home Dialysis Academy of Excellence** (mid Fall): A multi-day, hands-on symposium jointly created by UC Davis, Stanford and Satellite Healthcare to improve home dialysis outcomes (<https://hdexcellence.org/>).
- **American Society of Nephrology Kidney Week** (late Fall). The Division funds 2nd year fellows to attend the ASN annual conference and the pre-conference educational courses (<https://www.asn-online.org/education/kidneyweek/>).

For interested fellows, during 2nd year, our fellowship offers several weeks of **individualized learning tracks** in:

- 1) Glomerular disease
- 2) Interventional nephrology
- 3) Transplant
- 4) Research

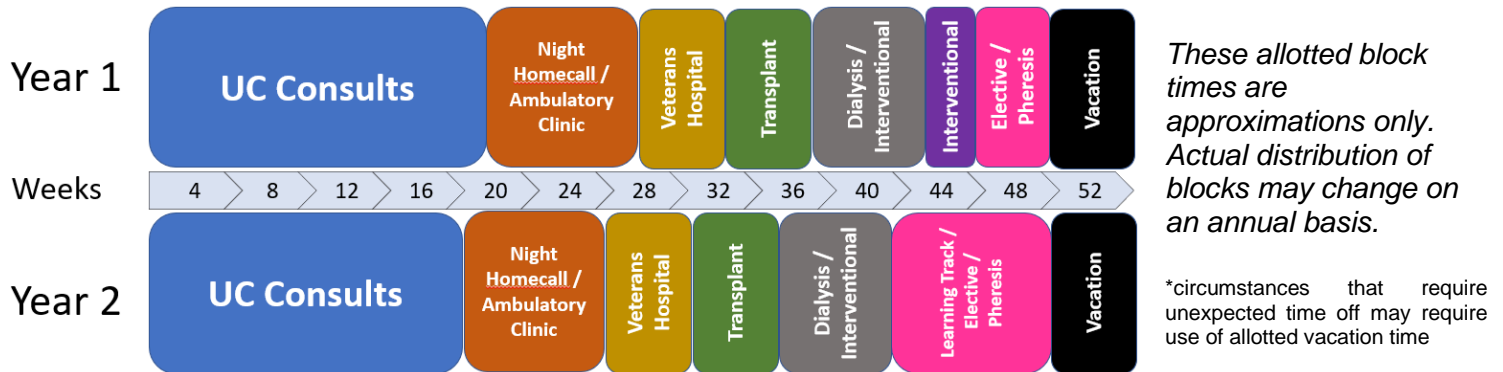
Nephrology textbooks and study materials are provided to each fellow at the beginning of their training to assist in their education. Fellows are scheduled in advance to present at conferences, including Nephrology Grand Rounds and Journal Club and Clinical Case Conferences. While on the Transplant rotation, second year fellows also present at the Transplant Grand Rounds.

Scholarly activity is a requirement for fellowship graduation. Fellows are encouraged to develop or find an existing project that piques their interest. Basic science, translational and clinical research opportunities are all available. All of our fellows are expected to submit to present abstracts, posters or short oral presentations at national societal meetings such as the American Society of Nephrology (ASN) and National Kidney Foundation conferences.



SCHEDULE

The *approximate* distribution of time is outlined below. Each “block” is *approximately* 2 weeks in duration. Each fellow has roughly 50 half-day continuity clinics over the course of a year, between the University and the VA locations. 1 or 2-week blocks of vacation time are allocated throughout the year to provide a total of 4 weeks of vacation per year*.



WHAT OUR GRADUATES ARE DOING

2016	2017	2018	2019	2020	2021	2022	2023	2024
UC Davis IN Fellow → Faculty, Sacramento, CA	Private practice, Pasadena, CA	Private practice, Merced, CA	Private practice, Stockton, CA	UC Davis Transplant Fellow → Private practice, Coeur D Alene, ID	Private practice, Pittsburgh, PA	Private practice, Torrance, CA	Veterans Hospital, Stockton, CA	UC Davis IN Fellow & Faculty, Sacramento, CA
Kaiser, Sacramento, CA	Private practice, Long Beach, CA	Private practice, Atlanta, GA	Private practice, Medford, CA	Private practice, Sacramento, CA	Private practice, Yakima, WA	Kaiser, Fremont, CA	Private practice, Elmira, NY	Private practice, Reno, NV
Private practice San Jose, CA	Academic Faculty, Boise, ID	Academic Faculty, Sioux Falls, SD	Kaiser, San Jose, CA	UC Davis Faculty, Sacramento, CA	Veterans Hospital, Sacramento, CA	UC Davis Faculty, Sacramento, CA	Private practice, Kansas City, MO	Private practice, Phoenix, AZ

APPLICATION TO FELLOWSHIP



The UC Davis Nephrology fellowship program accepts 3 fellows each year. We participate in the National Resident Matching Program (NRMP) for all our positions. Eligible physicians can apply via the Electronic Residency Application Service (ERAS) of the AAMC. Candidates must obtain a California Medical License prior to the start of fellowship. Please contact us for the complete requirements for international medical graduates. Residents in good standing in ACGME-approved Internal Medicine residencies are welcome to rotate at UC Davis, if their home program allows outside elective blocks.

DIVISION OF NEPHROLOGY

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Samia Yunus (samyunus@ucdavis.edu)

NEPHROLOGY FACULTY MEMBERS

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Depner Endowed Professorship

Shubha Ananthakrishnan, M.D.

Professor of Medicine
Co-IOR, Renal Medical School Curriculum
Medical Director, University DCI Home Dialysis Clinic

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Medical Director, Vascular Access Unit
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Fellowship Associate Program Director

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Assistant Clinical Professor
Interventional Nephrologist

Hiba Hamdan, M.B.B.S., M.P.H.

Assistant Clinical Professor

Nandakishor Kapa, M.D., M.P.H.

Assistant Clinical Professor
Co-Chair, Cardio/Pulm/Renal Medical School Curriculum

Niti Madan, M.D.

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Medical Director, UC Davis Nephrology Clinics
Medical Director, Madison DCI Clinic

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Faculty Lead, School of Medicine Admissions
Director, Ambulatory Kidney Care, Outreach and Innovation
Medical Director, Satellite Folsom, FMC South Sacramento

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Gulyassy Endowed Professorship
Medical Director, Satellite Sacramento

Michael T. Sim, M.D.

Associate Physician Diplomate

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Associate Clinical Professor
Fellowship Program Director
Medical Director, Southgate DCI Clinic

Jane Y. Yeun, M.D.

Professor of Medicine
Medical Director, Meadowview DCI Clinic

Brian Young, M.D.

Professor of Medicine
Fellowship Associate Program Director

TRANSPLANT NEPHROLOGY FACULTY MEMBERS

Muna Alnimri, M.B.B.S.

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Professor of Medicine
Director, Transplant Clinic

Yihung Huang, M.D.

Associate Clinical Professor
Chief of Transplant Nephrology
Director Kidney and Pancreas Transplant Medicine

Sama Shaikh

Assistant Clinical Professor

Aileen Wang, M.D.

Assistant Clinical Professor

WHERE WE ARE LOCATED

