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 5 UC campuses with a Medical Center. The UC Davis Medical Center, located in Sacramento, the Capital of California, provides health care for the region, and also serves as a tertiary referral center for much of Northern California and Nevada. The hospital manages almost 55,000 annual Emergency Room visits and over 33,000 annual hospital admissions.

School of Medicine, School of Nursing, Medical Center facts (ending 2015 fiscal year):

| Faculty and other academic personnel | 1504 |
| Residents and Fellows               | 879  |
| Students                            | 802  |
| Other staff                         | 10,302 |

The UC Davis Health System supports a large School of Medicine and a School of Nursing. It is also home of an internationally renowned School of Veterinary Medicine. The UC Davis Medical Center has been named one of the top hospitals in the nation by US News and World Report and the Leapfrog Group. In addition, as the area’s only Level 1 Trauma center for both adults and children (nationwide, there are less than 20 such combined trauma centers), UC Davis provides more admissions for trauma than any other UC medical campus.

UC Davis Nephrology is a division of the Department of Internal Medicine which supports over 140 residents and fellows. There are presently 12 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 Nephrology and Transplant Nephrology. We also started a new Interventional Nephrology fellowship with our first trainee in the 2016-2017 academic year.

UC Davis Nephrology is consistently ranked in US News and World Report. Top-notch clinical care is balanced by active clinical and basic science research. Faculty members have ongoing projects involving the bench-side investigations of polycystic kidney disease, renal cell carcinoma, diabetic nephropathy, fibrosis in CKD, IgA nephropathy, and lipid disorders of nephrotic syndrome. Other faculty members are involved in large clinical epidemiological studies. The Division has participated as a study site for various NIH studies in the recent past, including the HEMO study, the Frequent Hemodialysis Network trial and the SPRINT trials.
THE FELLOWSHIP PROGRAM

The nephrology fellowship at UC Davis Medical Center is a 2-year, ACGME-accredited program that is based at the UC Davis Medical Center in Sacramento, along with extensive additional clinical activities at the Sacramento Veterans Affairs (VA) Medical Center at Mather Field. Our training program accepts 3 fellows per year. An additional third research year can be designed around acceptable and approved research projects and in interventional nephrology (non-ACGME fellowship; not available every year). Fellows who have completed our program have continued on in academic and private nephrology careers. We take pride in the teaching excellence of our faculty.

The clinical training is extensive and includes: inpatient consultative nephrology; longitudinal experience in CKD patients; outpatient dialysis experience involving hemodialysis and home dialysis patients (PD and Home Hemodialysis); renal transplantation; exposure to interventional nephrology; apheresis, and research opportunities. The UC Davis Nephrology Fellowship prepares trainees for just about anything that they may experience in their career. 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 very diverse population. The UC 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. The UCD Health System’s Primary Care Network serves as a valuable source of referrals.

INPATIENT TRAINING - UC DAVIS MEDICAL CENTER HOSPITAL

Patients on the nephrology consultative service at UC Davis Medical Center exhibit a wide array of renal pathology. As a Level 1 Trauma Center, a regional Burn Center and a Tertiary referral center, fellows are involved in the care of high acuity patients. A very active cardiac program at the medical center provides experience in dealing with renal issues after trans-aortic valve replacement (TAVR) and left ventricular assist device (LVAD) procedures. Cancer patients are also commonly seen by our service, since UC Davis is a Cancer Center as designated by the NCI.

Dialysis modalities include IHD, CRRT and PD. Two fellows are assigned to the UC Davis inpatient teaching consultative service at all times. An attending-only (non-teaching) service during weekdays was instituted over a year ago to provide more teaching time on the fellow service. The teacher service census ranges from 25-35 patients. Dialysis is provided at bedside, or in a central acute care dialysis unit staffed by some of the most proficient dialysis nurses and technicians. In addition, a very comprehensive data base is kept of all dialysis treatments which allows for excellent quality control and potential for clinical research.
INPATIENT TRAINING—VETERANS AFFAIRS MEDICAL CENTER HOSPITAL

A wide array of renal diseases is also encountered in patients seen at the VA Medical Center Hospital. The VA Mather Field Medical Center in Rancho Cordova is about 11 miles east of the UC Davis Medical Center. UC Davis faculty provide many of the sub-specialty care for the facility, both outpatient and inpatient. Fellows have rotations through the inpatient consultative service, which is generally much lighter than that of the UC Medical Center with a census ranging from 3-10 patients, as well as a continuity clinic. There are 3 joint UC Davis-VA credentialed staff nephrologists and 2 VA nephrologists at the facility. A separate credentialing process for fellows is required for the VA.

OUTPATIENT DIALYSIS EXPERIENCE

Our nephrologists see over 500 long-term dialysis patients at several dialysis clinics. Fellows receive a longitudinal experience in caring for the in-center hemodialysis patient by way of rounds on a set panel of patients under the supervision of the faculty. In addition, fellows are first call for questions or issues that arise at the dialysis centers during their patient’s treatments. Home dialysis, including both home hemodialysis and peritoneal dialysis, is an emphasized aspect of the fellowship training throughout the 2 years. A separate home dialysis block, new for the 2017-2018 academic year, has been developed to provide further education on these modalities.

Home dialysis choices are presented to most patients, and our renal care team provides guidance throughout the training process. In addition, fellows learn what is involved in becoming a medical director of a dialysis unit. Topics such as water treatment, quality improvement oversight, and patient/staff safety are emphasized. There are also opportunities to participate in telemedicine, an area in which UC Davis has been a national leader.

TRANSPLANT TRAINING

The UC Davis Renal Transplant Service performs well over 300 kidney transplants a year and is one of the busiest renal transplant centers in the country (1st in the nation for number of kidney transplants done in 2016). The Renal Transplant program is a recipient of the Award of Excellence by HealthGrades, an independent healthcare ratings organization. Fellows participate on the inpatient service, which is staffed by both Transplant Surgery and Transplant Nephrology faculty, in both the first and second years of their fellowship. Emphasis is placed on the ambulatory management of post-transplant patients. Fellows actively participate in the follow-up and new patient evaluation clinics. Fellows also gain extensive experience in performing renal transplant biopsies as well as participate in the weekly pathology conference. Fellows are expected to present at one transplant grand rounds during their second year. Additional longitudinal transplant experience is found at both the VA outpatient and UC Davis renal clinics.
INTERVENTIONAL NEPHROLOGY EXPERIENCE

Our program is proud to offer one of the few interventional nephrology experiences integrated into the fellowship program. Our program is ASDIN-certified and trains nephrologists outside of our health system who come to learn the skills needed to become full-fledged interventional nephrologists. Established over 10 years ago, interventional nephrology at UC Davis performs about 900 procedures a year, ranging from insertion of tunneled hemodialysis catheters to thrombectomy of clotted AV shunts in a dedicated vascular access suite. In addition, our service places infusion and apheresis catheters on behalf of many of the hematology and oncology physicians.

Fellows are provided direct experience with ultrasound guided vascular procedures. Depending on skill level, fellows can be directly involved in performing angiograms and angioplasties during their rotations on the interventional service. Additionally, fellows learn how to perform a complete physical examination of AV shunts, pinpointing suspected problems and understanding what studies are required. Fellows are invited to participate in the monthly multidisciplinary conference on HD access, which involves surgery, radiology and nephrology faculty. In addition, first year fellows receive training on simulators for central line placement and renal biopsies at the Center for Virtual Care located on the UC Davis medical campus. Interventional training for non-ACGME procedures is meant to provide a “flavor” of what an interventional nephrologist would be doing in practice, and not “credential” the fellow for these interventions. We have started a non-ACGME Interventional Nephrology fellowship for the academic 2016-2017 year. Vacancies for this fellowship spot will vary year by year, as we continue to assess the feasibility of continuing this training opportunity.

RENAL CLINICS

Fellows achieve a diverse, longitudinal outpatient nephrology experience in the clinics at the UC Davis Ambulatory Care Clinics (ACC), located near the main hospital, and in the VA renal clinics, located adjacent to the VA Medical Center main hospital. Fellows serve as the primary renal consultants for a wide range of patients with kidney diseases, ranging from active glomerular diseases to advanced CKD. Fellows perform percutaneous kidney biopsies for patients who require tissue diagnosis. All clinics are supervised by faculty, and all clinics employ full electronic medical records (EMR). Each fellow averages around 30 and 40 half-day clinics per year, at the UC and VA renal clinics, respectively.
TEACHING AND SCHOLARSHIP

UC Davis Nephrology offers an intensive teaching program for our fellows, rotating residents and students who choose a nephrology elective. In addition to inpatient consultation rounds, fellows attend weekly Nephrology Grand Rounds, Journal Club/Research Conferences, Renal Pathology conference, a weekly core topic series, a transplant and immunology lecture series, and a series of core material in nephrology for starting fellows.

Fellows are expected to present at conferences, including Nephrology Grand Rounds and Journal Club and Clinical Case Conferences. While on the Transplant rotation, fellows also present at the transplant Journal Club. Conferences are scheduled several months in advance, allowing time for preparation. These sessions give trainees an opportunity to hone their speaking skills and to become an “expert” on a particular nephrology topic.

RESEARCH

The research component of the UCD Nephrology fellowship is an integral part of the program. Scholarly activity is a requirement for fellowship graduation. Fellows are encouraged to develop or find an existing project that piques their interest within their first year. Basic science, translational and clinical research opportunities are all available. Fellows are encouraged to seek a mentor who will assist them in moving forward with their project. Current research areas include VA and NIH-funded projects in proteomics and metabolomics of renal disease (Diabetic nephropathy, PCKD, IgA nephropathy), renal cancer, and PKD signaling. An annual Kidney Research day highlights clinical and bench research, with invited speakers from other institutions. In addition, faculty members are also involved in outcomes studies using large databases with close collaboration with other academic institutions. Topics include physical functioning in ESRD patients, infection risks in ESRD, and re-hospitalizations risks in CKD, and CKD decision making in the very elderly. All of our fellows present abstracts, posters or short oral presentations at national societal meetings such as the American Society of Nephrology (ASN) and National Kidney Foundation conferences. These national conferences are also great opportunities for faculty, fellows and alumni to reconnect. The Division funds the second year fellows to attend the ASN annual conference and the pre-conference educational courses.

APHERESIS EXPERIENCE

Nephrologists may find themselves managing plasmapheresis or apheresis in their practices. In the past, our fellows have received some exposure to this therapy in their second year. Starting in the 2017-2018 academic year, each fellow will have one week of apheresis experience per year, working with the Department of Pathology and Laboratory Medicine which manages apheresis at UC Davis.
SCHEDULE

The approximate distribution of time is outlined below. Each “block” is approximately 3 weeks in duration. The year is comprised of 18 blocks. Each fellow has roughly 72 half-day continuity clinics over the course of a year, between the University and the VA locations. Two, 2-week blocks of vacation time, not to run consecutively, are allotted per year giving a total of 4 weeks of vacation per year*.

These allotted block times are approximations only. Actual distribution of blocks may change on an annual basis.

WHAT OUR GRADUATES ARE DOING

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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 of our positions. Eligible physicians can apply via the Electronic Residency Application Service (ERAS) of the AAMC. The UC Davis Health System (UCDHS) follows the AAMC guidelines regarding H1-B sponsorship and does not support the H1-B visa for international medical graduates (IMG). The UCDHS does not accept H1-B visa transfers. 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.

*circumstances that require unexpected time off may require use of allotted vacation time
DIVISION OF NEPHROLOGY

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https://goo.gl/maps/iA2ViG2Fnwy

NEPHROLOGY FACULTY MEMBERS

**Burl R. Don, M.D.**
Professor of Medicine
Chief of Nephrology
Director Clinical Nephrology
Medical Director, Rancho Cordova and Meadowview DCI Clinics

**Maryam Afkarian, M.D.**
Associate Professor of Medicine

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Interventional Nephrologist

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**Andrew I. Chin, M.D.**
Clinical Professor
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**Lorien S. Dalrymple, M.D., MPH**
Volunteer Clinical Faculty

**Thomas A. Depner, M.D.**
Emeritus Professor of Medicine

**Lindsey R. Goetz, M.D.**
Staff Nephrologist
Interventional Nephrologist

**George A. Kaysen, M.D., Ph.D.**
Emeritus Professor of Medicine

**Niti Madan, M.D.**
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Medical Director, UC Davis Nephrology Clinics
Medical Director, Madison DCI Clinic

**Jose A. Morfin, M.D.**
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Medical Director, Satellite Natomos Clinic

**Jamie L. Ross, M.D.**
Clinical Professor
Director of Interventional Nephrology

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Professor of Medicine
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**Jane Y. Yeun, M.D.**
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Associate Clinical Professor

**TRANSPLANT NEPHROLOGY FACULTY MEMBERS**

**Angelo M. DeMattos, M.D., MPH**
Professor of Medicine
Section Chief
Director Kidney and Pancreas Transplant Medicine

**Muna Alnimri, M.D., M.B.B.S.**
Associate Professor of Medicine

**Ling-Xin Chen, M.D.**
Assistant Professor of Medicine

**Brian J. Gallay, M.D., Ph.D.**
Professor of Medicine

**Mehul Gandhi, M.D., M.B.B.S.**
Professor of Medicine
Director, Transplant Clinic

**Yihung Huang, M.D.**
Assistant Clinical Professor