NEPHROLOGY FELLOWSHIP

Division of Nephrology

www.ucdmc.ucdavis.edu/internalmedicine/nephrology
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 has 645 beds, managing almost 55,000 annual Emergency Room visits and over 33,000 annual hospital admissions.

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 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 trauma centers), UC Davis provides more admissions for trauma than any other UC medical campus.

School of Medicine, School of Nursing, Medical Center facts:

| Faculty and other academic personnel | 1259 |
| Residents and Fellows                | 871  |
| Students                              | 816  |
| Other staff                           | 7646 |

UC Davis Nephrology is a division of the Department of Internal Medicine which supports over 140 residents and fellows. There are presently 10 full-time faculty members in the Nephrology Division and 6 Transplant Nephrologists. The Division continues to grow, anticipating the addition of faculty in general Nephrology, Interventional Nephrology, and in Transplant.

The UC Davis Nephrology is nationally ranked by 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, 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 ongoing SPRINT trial.
THE FELLOWSHIP

The nephrology fellowship at UC Davis Medical Center is a 2-year, ACGME-accredited program that is primarily based at the UC Davis Medical Center in Sacramento with extensive additional clinical activities at the Sacramento Veterans Administration (VA) Medical Center. Our training program accepts 3 fellows per year. An additional third research year can be designed around acceptable and approved research projects. 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; longitudinal outpatient dialysis experience involving hemodialysis and home dialysis patients (PD and Home Hemodialysis); renal transplantation; exposure to interventional nephrology; and many research opportunities. The UC Davis Nephrology Fellowship is a busy one, which prepares trainees for just about anything that they may experience later on - graduates have successful careers in both private and academic settings.

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 Davis 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. Cancer patients are also commonly seen by our service, since UC Davis is a Cancer Center as designated by the NCI. When renal replacement therapy is required, options include standard hemodialysis, slow extended daily dialysis (SLEDD) for intensive unit patients, or continuous renal replacement therapy (CRRT) for the most critically ill of patients. Two Fellows assigned to the UC Davis inpatient consultative service on weekdays. The 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.
**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 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 rotate through the inpatient consultative service, which is generally much lighter than that of the UC Medical Center, with a census ranging from 3-8 patients. A separate credentialing process is required for the VA.

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**OUTPATIENT DIALYSIS EXPERIENCE**

Our nephrologists see over 450 long-term dialysis patients at several dialysis clinics. The fellows receive a longitudinal experience in both hemodialysis and peritoneal dialysis 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. Exposure to home hemodialysis, an important and growing modality of treatment, is also part of the fellowship training. In addition, fellows learn some of the basics involved in becoming a medical director of a dialysis unit. Topics such as water treatment, quality improvement oversight, and patient/staff safety are emphasized.

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**TRANSPLANT TRAINING**

The UC Davis Renal Transplant Service performed well over 300 kidney transplants a year and is one of the busiest renal transplant centers in the country. 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. Additional longitudinal transplant experience is found at both the VA outpatient and UC Davis renal clinics.
INTERVENTIONAL NEPHROLOGY EXPOSURE

Our program is proud to offer one of the few interventional nephrology experiences integrated into the fellowship program. Our program is ASDIN-certified and has trained nephrologists outside of our health system. Established over 8 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, this service places infusion and apheresis catheters for the hematology/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.

RENAL CLINICS

Fellows achieve a diverse, longitudinal outpatient nephrology experience in the clinics at the UC Davis Ambulatory Care Clinics, located near the main hospital, and in the VA renal clinics, located adjacent to the VA Medical Center. Fellows serve as the primary renal consultants for a wide range of patients with kidney diseases, ranging from active glomerular diseases to end stage disease. 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).
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. Fellows are required to perform research in each year of fellowship. Fellows are assigned a mentor who will assist them in finding and completing a project. Current research areas include VA and NIH-funded projects in proteomics and metabolomics of renal disease (PCKD, IgA Nephropathy and kidney cancer), renal cancer, and PKD signaling.

In addition, the Division is renowned for its work in exploring and defining the relationship between nutrition (as measured by serum albumin, transthyretin, and body composition) and inflammation, and its effects on cardiovascular and overall outcomes in dialysis patients. Key faculty members have focused their careers in elucidating the importance of lipoprotein levels, structure and function, as it pertains to renal disease both in humans and in experimental animal models.

Members of the Division 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.

All of our fellows present abstracts or posters at national societal meetings such as the ASN and NKF national conferences. Scholarly activity is a requirement for fellowship graduation. Progress during the research blocks is monitored and faculty members are interested in the successful implementation of research skills.
**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 approximately 80 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.

**WHAT OUR GRADUATES ARE DOING**

<table>
<thead>
<tr>
<th>Graduation year</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
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<tbody>
<tr>
<td>Private practice, PA</td>
<td>Transplant fellowship</td>
<td>VA Northern CA</td>
<td>Private practice, CA</td>
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<tr>
<td>Private practice, CA</td>
<td>Glomerular disease fellowship</td>
<td>Private practice, CA</td>
<td>Private practice, CA</td>
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<tr>
<td>Private practice, NV</td>
<td>Private practice, IN</td>
<td>Academic, UC Davis interventional nephrology</td>
<td>Private practice, IL</td>
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</tbody>
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*Please see our website for additional details regarding recent graduate careers.

**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). In addition, the UCDHS does not accept H1-B visa transfers. Please contact us for the complete requirements for international medical graduates.
DIVISION OF NEPHROLOGY

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Fellowship program coordinator: Sylvia Bergeron
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NEPHROLOGY FACULTY

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

Shuhba Ananthakrishnan, M.D.
Assistant Clinical Professor
Medical Director, Southgate DCI Clinic

Andrew I. Chin, M.D.
Clinical Professor
Fellowship Program Director
Medical Director, University DCI Clinic

Lorien S. Dalrymple, M.D., MPH
Associate Professor of Medicine

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

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

Niti Madan, M.D.
Associate Clinical Professor
Medical Director, UC Davis Nephrology Clinics
Medical Director, Madison DCI Clinic

Jose A. Morfin, M.D.
Associate Clinical Professor
Director, Home Dialysis Services & CQI

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

Robert H. Weiss, M.D.
Professor of Medicine
Chief, Nephrology Section at Sacramento VAMC

Jane Y. Yeun, M.D.
Professor of Medicine
IOR Nephrology Medical Student Course

TRANSPLANT NEPHROLOGY FACULTY

Angelo M. DeMattos, M.D., MPH
Professor of Medicine
Chief, Section of Transplant Nephrology

Deborah Adey, M.D.
Professor of Medicine

Muna Alnimri, M.D.
Assistant Professor of Medicine

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

Mehul Gandhi, M.B.B.S.
Associate Professor of Medicine