William B. Schwartz Division of Nephrology
2018 Annual Report

We dedicate this year’s report to Drs. Inker and Weiner for their amazing accomplishments.
# Table of Contents

**Message From the Chief** ................................................................. 4  
**Division Family Tree** .................................................................... 6  
**Ticco Robinson, PA Visits Nicaragua** .............................................. 7  
**Dr. Harrington Memorial Service** .................................................... 8  
**Dr. Perrone Steps Down as Associate Division Chief** ...................... 9  
**Tufts MC True Blue Recipient—Sharyn Moussawee** ....................... 10  
**Welcoming New Faculty and Fellows** ............................................ 11  

## Administration .............................................................. 14  
  2018 Administrative Initiatives ....................................................... 15  
  Division Overview ........................................................................ 15  
  Location ....................................................................................... 16  
  Staffing ....................................................................................... 16  
  Service ....................................................................................... 27  
  2018 Administrative Awards and Honors ........................................ 28  

## Patient Care .......................................................... 30  
  2018 Patient Care Initiatives .......................................................... 31  
  Continuing Patient Care Initiatives—Outpatient ................................ 31  
  Continuing Patient Care Initiatives—Inpatient .................................. 35  
  Division Quality Improvement ...................................................... 37  
  Community Service/Patient Education .......................................... 37  
  2018 Patient Care Awards and Honors ........................................... 37  

## Research ............................................................. 39  
  2018 New Research Grant Awards ................................................ 40  
  Total Amount and Type of Research Grant Awards ......................... 40  
  2018 Division Publications ............................................................ 42  
  2018 Research Awards and Honors ............................................... 48  

## Education ............................................................ 49  
  2018 Education Initiatives ............................................................ 50  
  Continuing Education Initiatives ................................................... 52  
  Fellowship Programs ..................................................................... 53  
  Continuing Medical Education ....................................................... 55  
  2018 Continuing Medical Education Initiatives ............................... 55  
  Editorial Board Appointments ........................................................ 59  
  2018 Education Awards and Honors .............................................. 59  

## Public Policy .......................................................... 61  
  2018 Policy Initiative Accomplishments ......................................... 62  
  Continuing Policy Initiatives .......................................................... 62  

## Philanthropic Support of the Division ........................................ 64  
  Continuing Philanthropic Initiatives ................................................. 65  
  Information to Make Gifts to the Division ........................................ 72
Tables

Table 1: On-site Locations of Division Activities at Tufts Medical Center ........................................... 16
Table 2: Off-site Clinical Nephrology Activities Affiliated with Tufts Medical Center ............................. 16
Table 3: Outpatient Hemodialysis Units Affiliated with Tufts Medical Center ...................................... 33
Table 4: Outpatient Clinical Activity: Fiscal Year 2017 vs. 2018 ......................................................... 34
Table 5: Outpatient Dialysis Visits by Division Physicians at Affiliated Units: Fiscal Year 2017 vs. 2018 . 34
Table 6: Ambulatory Visits by Division Physicians at Affiliated Clinics: Fiscal Year 2017 vs. 2018 .......... 34
Table 7: Inpatient Clinical Activity: Fiscal Year 2017 vs. 2018 ......................................................... 36
Table 8: Inpatient Dialysis Treatments: FY 2017 vs. 2018 .................................................................. 37
Table 9: New Research Grant Awards Received in 2018 .................................................................... 40
Table 10: Ongoing Research Grant Awards Received Prior to 2018 ...................................................... 41
Table 11: 2018 Visiting Professors and Visiting Faculty ........................................................................ 51
Table 12: Longstanding Graduate-level Teaching Initiatives by Division Members .............................. 52
Table 13: Longstanding Postgraduate-level Teaching Initiatives by Division Members ....................... 52
Table 14: Graduated Clinical Fellows .................................................................................................... 53
Table 15: Current Clinical Fellows ......................................................................................................... 54
Table 16: Graduated Research Fellows .................................................................................................. 55
Table 17: Current Research Fellows ....................................................................................................... 55
Table 18: 2018 Local, National & International Presentations by Division Faculty ............................... 55

Figures

Figure 1: Kidney Transplants at Tufts Medical Center 2014-2018 .......................................................... 35
Figure 2: Division of Nephrology Research Awards Fiscal Year 2015-2018, by type ............................. 40
**MESSAGE FROM THE CHIEF**

Welcome to our 17th Annual Report. This year’s report summarizes our endeavors in the areas of administration, patient care, research, education, and policy. 2018 was an excellent year for the Division.

Our cover this year honors Drs. Lesley Inker and Dan Weiner for their outstanding contributions to the Division. Dr. Inker received the Garabed Eknoyan Award from the National Kidney Foundation (NKF) during the 2018 Spring Clinical Meeting. The award is given to an individual who promotes the mission of the NKF in making lives better for people with kidney disease through exceptional contributions. Dr. Inker was named Co-Director of the Chronic Kidney Disease Epidemiology Collaboration and was a Principal Organizer of the FDA-NKF-EMA Workshop that took place in March 2018 in DC. As part of this Workshop experts reviewed research which advocate for alternate measures of kidney endpoints in clinical trials. The findings from this conference will have important implications for future clinical trials in CKD. Dr. Inker continues to Direct the Kidney and Blood Pressure Center (KBPC) in the Division and develop new quality initiatives. Dr Weiner was Chair of the American Society of Nephrology (ASN) Quality Committee from 2016-2018 and represents the ASN at Kidney Care Partners. In this role, he has helped guide policy affecting the provision of kidney care in the United States. He was chosen as the inaugural Editor-in-Chief of *Kidney Medicine*, a new online journal from the NKF, and he remains the editor-in-chief of the *Primer on Kidney Diseases*, now in its 7th edition. In 2018, he was also selected as Director of Research in the Division and continues to provide tremendous care to all our dialysis patients as Associate Director of Dialysis services. He is the national Medical Director of Clinical Research for Dialysis Clinic, Inc., and, in this capacity, is the principal investigator on the largest randomized clinical trial in dialysis, HELPS-HD. He is also the co-Principal Investigator on the multicenter PCORI-funded Decision Aid in Renal Therapies (DART) study, and, with SPRINT MIND colleagues, recently published on the effects of intensive blood pressure control on cognitive function outcomes in JAMA.

The big news this year was that after 18 years of service to the Division as Associate Chief, Dr. Ron Perrone has stepped down. We are so fortunate that he is continuing to be a member of the Division with clinical, teaching and research responsibilities. We welcomed Craig Gordon back to the Division and Taimur Dad joined the staff as an attending physician (pages 10-11).

Clinically, we were thrilled that two of our Physician Assistants, Christine Sullivan and Alison Kaprove, earned special certification in Nephrology Practice. We started many initiatives to improve the experience and quality of care in the KBPC (page 30). We also had a few role changes. Dr. Seth Wright has assumed responsibility of the inpatient CVVH program and Dr. Alin Joseph assumed the role of Medical Director at DCI Walden Pond after many years as the Associate Medical Director of that facility. Clinical volume continued to be high at Tufts Medical Center and at our off-site practices.

Research funding remains extremely competitive, with overall funding remaining the same as last year. I’m happy to announce that the Division received 9 new grants or contracts in 2018. Additionally, publications were strong (85 print and 12 epubs).
Our commitment to education remains strong. We are particularly proud of Drs. Weiner, Craig Gordon and David Drew who are the editors of the new online journal from the NKF called *Kidney Medicine*. Dr. Taimur Dad was appointed the Associate Director of the Nephrology Fellowship Program.

Division members continued our storied history of receiving awards and honors. Sharyn Moussawee, our practice coordinator in Concord was honored as Tufts MC True Blue (page 9). As noted above, Dr. Lesley Inker received the Garabed Eknoyan award from the National Kidney Foundation. Dr. Perrone will be the honoree at the 2019 NKF Serving New England Honors event which recognizes members of the local community that have been outstanding in the fight against kidney disease. Several Division members were recognized for excellence in teaching: Dr. Scott Gilbert received the Massachusetts Medical Society Excellence in Teaching Award and was appointed to the Alliance for Academic Internal Medicine’s (AAIM) Association of Subspecialty Professors Council. Dr. Wright received the Outstanding Teaching in the Clerkship Years Award and Dr. Anshul Bhalla received the Excellence in Teaching Award to Housestaff/Fellows. In addition, we have Boston Top Doctors—Drs. Gilbert, Inker, Levey, Meyer, Perrone, Weiner and myself were all recognized by Boston Magazine. Finally, we recently found out that Ticco Robinson, PA in the KBPC, will be the March Saltonstall Employee of the Month!

We continue to rely on funds from the Friedman endowed chair and thank the donors of charitable contributions to our philanthropic funds such as Driscoll Family Endowed Fund in Nephrology, Inker Family Fund, Dr. Gerald J. and Dorothy R. Friedman Professorship in Medicine, William B. Schwartz Nephrology Fund, Dr. John T. Harrington Endowed Fund, and Hortense “Diddy” Seybolt Fund for Staff Enrichment in Nephrology. We greatly appreciate these contributions, as the funds provide necessary assistance to continue our mission.

I would again like to thank Dr. Michelle Richardson for her dedication and tremendous effort in preparing this year’s Annual Report.

As always, I hope you enjoy learning about our activities, and I welcome your feedback. We wish you and your family a happy, healthy and successful 2019!

Sincerely yours,

Mark J. Sarnak, MD, MS
Chief, William B. Schwartz Division of Nephrology, Tufts Medical Center
Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine
DIVISION FAMILY TREE

2018 Additions

The Division family grew in 2018 by 3! In the past 12 years, 47 babies have joined the Division. The current count is boys—24; girls—23.

Sophia Azalea born to Bethany and John Roehm
March 30th at ~2:30 pm
7 lbs 13 oz, 19.5”

Andrew John (AJ) born to Christine and Casey DiBenedetto
October 19th at 4:51 pm
8 lbs 9 oz; 21”

Amelia born to Qina Li and Yong Xin Mak
February 7th at 12 am
4 lbs 9.5 oz; 17.25”
TICCO ROBINSON, PA VISITS NICARAGUA

In February, Ticco Robinson, a PA in the KBPC, visited Nicaragua, the 2nd poorest country in Latin America. Ticco, Dr. Rohrer and several 4th year TUSM students volunteered in Hormiguero. The area is situated in an area called "Las Minas", which was popular for mining of ores, minerals, and precious metals. In 1 week, they treated about 400 patients. Some patients came on foot from small villages as far as 8 hours away and many had to traverse a river in 3 separate locations, all in order to receive care. The experience was rewarding and enlightening and deepened Ticco’s desire to serve domestic and international communities.
In March, the Division honored the memory of John T. Harrington, MD at a memorial service. It was heartwarming to have so many dignitaries, Division alumni and current faculty and staff sharing their memories of this wonderful man who so greatly influenced all of us.
**DR. RON PERRONE STEPS DOWN AS ASSOCIATE CHIEF**

This year, after 18 years as Associate Division Chief, Ron Perrone stepped down from directing the CHHV program and as Associate Division Chief. We are thankful for his years of leadership and service. Ron remains an active member of the Division caring for patients, conducting PKD clinical studies and contributing to and leading national and international initiatives.
TUFTS MC TRUE BLUE RECIPIENT—SHARYN MOUSSAWEE

Sharyn Moussawee, the Administrative Coordinator in the Pratt Medical Group, Nephrology in Concord, received Tufts MC True Blue Recognition in 2018! She joins Geneva Tucker, MBA as one of only 2 Division members to receive this coveted recognition.

The Tufts MC True Blue Recognition is awarded to the amazing and talented people who work beside us, and share what they do every day to improve the lives of patients and their families. These are people who perform an extraordinary act of customer service, innovation, quality and/or kindness.

“As the only staff person in this busy office, Sharyn is the warm and caring smile that greets every patient; the compassionate ear that hears and addresses every concern; and the glue that keeps operations running smoothly. She is the reason for the laughter coming out of the waiting room, and the ease with which patients start their visit. She is the resource that has all labs and referring physician information collated, and she is the force that schedules all appointments. She is deeply appreciated by the physicians in this office, the patients who seek care here and the medical community that interacts with us.”

An excerpt from Dr. Scott Gilbert’s nomination

Geneva, her supervisor, described Sharyn as “a one-woman band...more like a ten-piece orchestra! She is the epitome of organization and hard work—she runs our Concord nephrology practice all by herself and makes it look easy.”

An excerpt from Geneva Tucker’s nomination
NEW FACULTY MEMBERS AND FELLOWS

In July, we were very excited to add two new faculty members along with 3 clinical fellows and 1 research fellow.

We are delighted that Craig E. Gordon, MD, MS has returned to our Division as a faculty member. Previously, Dr. Gordon was an Associate Professor of Medicine at Boston University School of Medicine and the Training Program Director for the Nephrology Fellowship at Boston Medical Center. He graduated from New York University School of Medicine in 1997 and from the Tufts University Sackler School of Graduate Biomedical Sciences with a Master’s Degree in Clinical and Translational Research in 2007. He completed internal medicine residency at BIDMC in 2000, served as an academic hospitalist through 2005 and was a clinical/research fellow at Tufts Medical Center from 2005-2008.

Dr. Gordon has research and clinical expertise in Hepatitis C and served as the Assistant Project Director of the Evidence Review Team for the 2008 KDIGO clinical practice guidelines on HCV in chronic kidney disease. He is currently the Associate Director of the Evidence Review Team and Assistant Project Director for the 2018 Update to the KDIGO clinical practice guidelines on HCV in chronic kidney disease and the upcoming KDIGO clinical practice guidelines on the Care of the Kidney Transplant Candidate. He recently served as guest editor for a special issue on HCV in CKD for Hemodialysis International. His other clinical/research interests are in the development of a multi-disciplinary Thrombotic Microangiopathy (TMA) team, and in nephrology/internal medicine procedural safety as well as systematic reviews/meta-analyses related to other areas of nephrology.

Dr. Gordon is currently Visiting Associate Professor of Medicine at Tufts University School of Medicine as his application moves through the Promotions Committee.
We are also pleased to announce that **Taimur Dad, MD, MS** has joined the faculty of the William B. Schwartz Division of Nephrology, effective July 1, 2018. Dr. Dad is attending on both the Nephrology and consult inpatient services at Tufts Medical Center. Additionally, he cares for patients at our ambulatory offsite clinic at Lawrence Memorial Hospital of Medford and will see hemodialysis patients at DCI Ball Square in Somerville.

Dr. Dad graduated from Johns Hopkins University School of Medicine in Baltimore in 2011. He completed both his Internal Medicine Residency and Chief Residency at Tufts Medical Center. During his Clinical and Research Nephrology Fellowships, also at Tufts Medical Center, he completed a Master’s in Clinical and Translational Research from the Sackler School of Graduate Biomedical Sciences at Tufts University.

Dr. Dad’s research interests have focused on patient-reported outcomes. His most recent work has included a thorough analysis of patient experience as measured by the Incenter Hemodialysis Consumer Assessment of Health Care Providers and Systems (ICH CAHPS) in hemodialysis patients.

Dr. Dad is board certified in Internal Medicine and Nephrology. He is an Assistant Professor at Tufts University School of Medicine as well as the Associate Director of the Nephrology Fellowship.
Jahangir Ahmed, MD

Medical School: Nishtar Medical College  
Residency: Brooklyn Hospital Center  
Hobbies/Interests: Cooking, traveling, kickboxing and spending time with family and friends.  
Why Tufts MC? I choose Tufts Medical Center because of the unparalleled training experience by the world renowned experts in Nephrology. It is truly a great work environment with extremely friendly staff and faculty.

Yashodhan Chivate, MD

Medical School: Ross University School of Medicine  
Residency: Stony Brook Medicine  
Hobbies/Interests: I enjoy biking, kayaking, stoop-sitting, playing guitar, feeding stray cats, and eating everything in my general vicinity.  
Why Tufts MC? I was drawn to Tufts by its reputation as a rigorous training program, and by the opportunity to work with some of the best minds in nephrology. The atmosphere is incredibly welcoming and supportive, and I’m thrilled to be part of the Tufts family. Although fellowship is certainly busy, I look forward to coming to work every morning!

Rajiv Sinanan, MD

Medical School: University of the West Indies Faculty of Medicine St. Augustine, Trinidad  
Residency: Jackson Memorial Hospital  
Hobbies/Interests: Boxing, Muay Thai, Jiu Jitsu  
Why Tufts MC? Tufts provides a highly academic environment in a very comfortable setting. The faculty members are very approachable and the support staff is phenomenal. I am very happy that I choose Tufts MC.

Bethany Roehm, MD

Medical School: Baylor College of Dentistry Component of Texas A&M Health Science Center  
Residency: Tufts Medical Center  
Hobbies/Interests: reading, cooking, going to the beach, and playing with my new daughter  
Why Tufts MC?: I used to work here several years ago as a study coordinator, and when it came time to choose where to go for fellowship, I knew I wanted to be at Tufts because the doctors, nurses, and other support staff are so caring, taking such great care of patients.
2018 Administrative Initiatives

- After much effort by many people, a new sign was placed at the entrance of the Trader’s Building located at 35 Kneeland Street which not only identified the building as a Tufts Medical Center building but also the home of DCI Boston.

Division Overview

The William B. Schwartz Division of Nephrology is comprised of full-time and part-time physicians and scientists and staff to support our clinical, research, educational and administrative endeavors. The Division is an integral part of the Tufts Medical Center, Tufts University School of Medicine (TUSM), and Tufts University communities. As listed in the Staffing section, many Division members have other appointments within Tufts Medical Center, TUSM, and the Sackler School of Graduate Biomedical Sciences at Tufts University. In addition, the Division also enjoys a close and long-term relationship with Dialysis Clinic, Inc. (DCI), the largest not-for-profit provider of dialysis care in the United States, and the National Kidney Foundation (NKF). In a broader organizational structure, Division members are also active participants within their professional organizations. Through these relationships, the Division is able to provide excellent patient care, perform high-level research, educate students and practitioners about kidney disease, and influence public policy relating to the diagnosis and treatment of kidney diseases.
**Location**

The Division maintains off-site and on-site ambulatory, dialysis, and inpatient operations, with administrative and research operations located within the Tufts Medical Center campus. Drs. Cohen, Dad, Drew, Gilbert, Gordon, Joseph, Meyer, Miskulin, Weiner, and Wright provide care at our off-site affiliates. The location of activities performed both on-site at Tufts Medical Center and at off-site affiliates are listed in Table 1 and Table 2, respectively.

**Table 1:** On-site Locations of Division Activities at Tufts Medical Center

<table>
<thead>
<tr>
<th>Building</th>
<th>Floor</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kneeland Street</td>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Kidney and Blood Pressure Center (KBPC) and KBPC staff</td>
</tr>
<tr>
<td></td>
<td>5&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Outpatient Dialysis Services provided by DCI</td>
</tr>
<tr>
<td></td>
<td>5&lt;sup&gt;th&lt;/sup&gt; and 6&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Division support operations and physician and research staff offices</td>
</tr>
<tr>
<td>Floating</td>
<td>7&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Inpatient dialysis services provided by DCI</td>
</tr>
<tr>
<td>North</td>
<td>7&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Primary location for inpatient ward service</td>
</tr>
</tbody>
</table>

**Table 2:** Off-site Clinical Nephrology Activities Affiliated with Tufts Medical Center

<table>
<thead>
<tr>
<th>Off-site Practices</th>
<th>Services Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Pratt Medical Group Nephrology and Hypertension, Concord MA</td>
<td>• Outpatient nephrology</td>
</tr>
<tr>
<td>• Emerson Hospital, Concord MA</td>
<td>• Inpatient consultation and dialysis services</td>
</tr>
<tr>
<td>• DCI Walden Pond, Concord MA</td>
<td>• Outpatient dialysis services</td>
</tr>
<tr>
<td>• Reading MA and hospital-based clinics at Lawrence Memorial in Medford MA and Melrose-Wakefield in Melrose MA</td>
<td>• Outpatient nephrology</td>
</tr>
<tr>
<td>• St. Elizabeth’s Medical Center, Hospitals—Melrose-Wakefield Healthcare in Melrose, and Whidden in Everett</td>
<td>• Inpatient consultation and dialysis services</td>
</tr>
<tr>
<td>• DCI Ball Square in Somerville MA, Malden, Medford, Saugus, and Stoneham dialysis units</td>
<td>• Outpatient dialysis services</td>
</tr>
</tbody>
</table>

**Staffing**

**Physician Staff**

Mark J. Sarnak, MD, MS  
Chief  
Director, Research Training Program  
Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine

Ronald D. Perrone, MD  
Associate Chief  
Professor of Medicine  
Professor, Tufts Clinical and Translational Science Institute (CTSI)

Andrew S. Levey, MD  
Professor of Medicine  
Chief Emeritus  
Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine Emeritus
Michael B. Cohen, MD
Assistant Professor of Medicine
Taimur Dad, MD, MS
Associate Medical Director, DCI Ball Square
David A. Drew, MD, MS
Associate Professor of Medicine
Scott J. Gilbert, MD
Professor of Medicine
Craig E. Gordon, MD, MS
Visiting Associate Professor
Taimur Dad, MD, MS
Assistant Professor
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Special Assistant to the Dean, TUSM

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Geneva Tucker, MBA
Business Operations Manager
William B. Schwartz Division of Nephrology, Pratt Medical Group
Nephrology and Hypertension, Concord, and Pratt Medical Group
Nephrology at Mystic Medical Group, Medford

Krista Boisclair, MS
Research Administrator III

Faculty Descriptions

**MARK J. SARNAK, MD, MS, FASN**

Dr. Sarnak is Chief of the Division of Nephrology and Professor of Medicine at Tufts University School of Medicine. His research focuses on cardiovascular disease and its risk factors in CKD, aging and kidney disease, cognitive function and CKD, and novel biomarkers of CKD. Dr. Sarnak’s research is funded by the NIDDK and the National Institutes of Aging (NIA). Dr. Sarnak’s clinical specialties are in cardiovascular disease in patients with kidney disease, management of CKD, dialysis, hypertension, kidney transplantation, and kidney stones. Dr. Sarnak recently chaired
the Kidney Disease Improving Global Outcomes (KDIGO) Controversies Conference for Coronary Artery Disease and Valvular Disease in Kidney Disease and was a member of the Steering Committee for both the KDIGO Controversies Conference on Heart Failure in CKD and Blood Pressure in CKD. He is currently a member of the KDIGO Kidney Blood Pressure Guideline Update that will take place in 2019.

**RONALD D. PERRONE, MD, FASN, FNKF**

**Dr. Perrone** has a long-standing and wide-ranging interest in translation of basic science discoveries to clinical medicine. Starting with a laboratory focused on epithelial transport, he subsequently focused on work with immortalized epithelia including human intrahepatic biliary epithelium, human polycystic liver cysts, and human bladder. His present work focuses on clinical research in polycystic kidney disease and the role of total kidney volume as a biomarker in response to clinical therapies. Dr. Perrone has been a member of the Scientific Advisory Committee of the Polycystic Kidney Disease Foundation from 1999 to 2016 (Chairman from 2006-2010) and frequently lectures at national and local patient meetings. He served as Co-Investigator with Dr. Levey in the pilot and planning phases (Phase I and II) of the MDRD study and played a fundamental role in the validation and use of the \( ^{125} \text{I} \)-iothalamate protocol used for the MDRD and other clinical trials of progressive kidney disease.

Dr. Perrone had a major role in global and national clinical trials for ADPKD. He served as site PI and member of the steering committee for the TEMPO 251 and REPRISE studies of tolvaptan in ADPKD. Dr. Perrone was site PI and member of the steering committee for the NIDDK-sponsored HALT PKD study. Dr. Perrone and colleagues at the University of Maryland, Baltimore, and the University of Pittsburgh received a 5-year grant from the Department of Defense to study metformin as a clinical intervention in ADPKD (TAME PKD). This trial has just completed its recruitment goals. Dr. Perrone is co-Principal Investigator and co-chair of the steering committee for the Sanofi PKD trial of venglustat (STAGED-PKD) and site PI of the Kadmon PKD trial of tesevatinib.

Over the past 9 years, Dr. Perrone has been integral to the formation of the PKD Outcomes Consortium and has been the principal individual involved in bringing together the contributors from academia, pharma, NIH, FDA, CDISC, and C-Path. He has led this large and diverse consortium that is creating the groundwork for validation of total kidney volume as a clinical trial and regulatory endpoint in ADPKD. This consortium created a CDISC SDTM therapeutic area data standard for ADPKD, which is freely available for use for clinical trials and registries of ADPKD (http://www.cdisc.org/therapeutic#polycystickidneydisease). Recently, total kidney volume was improved as a clinical enrichment biomarker for inclusion of subjects in clinical trials of ADPKD by both the US Food and Drug Administration (http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM458483.pdf) and the European Medicines Agency (http://www.ema.europa.eu/docs/en_GB/document_library/Regulatory_and_procedural_guideline/2015/07/WC500190205.pdf). Dr. Perrone’s goal, enhanced by prior experience in epithelial biology, clinical trials, dietary modification, and translation of basic discoveries to clinical care, is to improve outcomes in chronic kidney disease, particularly polycystic kidney disease.

Dr. Perrone was the Transplant Medical Director at Tufts Medical Center for many years, a position that transitioned to Dr. Goyal in October 2017. Dr. Perrone is the Scientific Director of the Clinical and Translational Research Center (CTRC), under the auspices of the Tufts Clinical and Translational Science Institute. The CTRC is the main site for clinical research studies at Tufts Medical Center. His role is to provide scientific leadership and facilitate research activities in the CTRC.

**ANDREW S. LEVEY, MD**

**Dr. Levey** is Professor of Medicine and Dr. Gerald J. and Dorothy R. Friedman Professor Emeritus at Tufts University School of Medicine and Chief Emeritus, William J. Schwartz Division of Nephrology at Tufts Medical Center.

Dr. Levey’s research interests include measurement and estimation of kidney function and epidemiology of chronic kidney disease (CKD). Dr. Levey has a long history of participating in multicenter clinical trials and cohort studies. For the past 20 years, he has been at the forefront of the development of equations to estimate glomerular filtration rate (GFR) from serum creatinine, cystatin C, and novel filtration markers using large databases, including the widely-used Modification of Diet in Renal Disease (MDRD) Study and Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI).
equations. He is the founding director of CKD-EPI and is a founding member of the Chronic Kidney Disease Prognosis Consortium (CKD-PC). The use of GFR estimating equations to estimate kidney function and inform prognosis has transformed research, clinical practice, and public health in CKD.

Dr. Levey is a widely recognized authority on clinical practice guidelines in CKD and has contributed to guideline development, implementation, quality improvement, and public policy in this area. He was Principal Investigator of the Division’s NIDDK-supported training grant (T32) in clinical trials, epidemiology, and outcomes research from 1999-2018. He was Editor-in-Chief of the American Journal of Kidney Diseases from 2007-2016.

He received the Distinguished Faculty Award from TUSM in 2004 and the Distinguished Alumnus Award from Boston University School of Medicine in 2013. The National Kidney Foundation honored him with the President’s Award in 1998, Garabed Eknoyan Award in 2002, and David W. Hume Award in 2011. The American Society of Nephrology honored him with the Belding H. Scribner Award in 2013. He was elected to the Association of American Physicians in 2016.

Michael B. Cohen, MD
Dr. Cohen practices primarily at Melrose-Wakefield Hospital. He consults in both the inpatient and outpatient settings on the care of patients with kidney disease, hypertension, and those treated with hemodialysis and peritoneal dialysis. Dr. Cohen is Associate Medical Director at DCI Ball Square and Medical Director of the acute dialysis program at Hallmark Health. He is also involved with teaching medical students, residents, and fellows in nephrology.

Taimur Dad, MD, MS
Dr. Dad joined the Division faculty in 2018 as an Assistant Professor at Tufts University School of Medicine and the Associate Director, Nephrology Fellowship. He graduated from Johns Hopkins University School of Medicine in Baltimore in 2011 followed by completing both his Internal Medicine Residency and Chief Residency at Tufts Medical Center in June of 2015. He then participated in the Nephrology Fellowship at Tufts Medical Center during which he completed a Master’s in Clinical and Translational Research from the Sackler School of Graduate Biomedical Sciences at Tufts University.

His research thus far has focused on the evaluation of patient experience in dialysis. His clinic is located at the offsite practice at Lawrence Memorial Hospital in Medford and he sees hemodialysis patients at one of our dialysis affiliates (Dialysis Clinic, Inc.) in Somerville. Additionally, he attends on both the nephrology ward and consult inpatient services at Tufts Medical Center.

David A. Drew, MD, MS
Dr. Drew joined the Division of Nephrology in 2015 after completing his clinical and research nephrology fellowship at Tufts Medical Center. He is currently an Assistant Professor of Medicine with the majority of his effort focused on clinical research. At present, he is supported by a K23 award from the NIDDK that examines the role of FGF-23 and klotho with cognitive impairment and stroke in patients with kidney disease. His overall research focus is on mineral metabolism (in particular the utility of FGF-23 and klotho as biomarkers), cognitive impairment, and vascular disease and how these conditions impact patients with chronic kidney disease. He has ongoing research projects with several large clinical cohorts including SPRINT, Health ABC, and CRIC. Prior support includes a Ben J. Lipps research fellowship from the American Society of Nephrology (2012-2014) and a pilot award from the NIH-funded CKD Biomarkers Consortium (2017-2018). Starting in fall of 2018, Dr. Drew joined the editorial board as an Associate Editor of Kidney Medicine, a new journal supported by the National Kidney Foundation. Dr. Drew is also a co-investigator on several ongoing clinical trials being conducted at Tufts Medical Center.

His clinical practice is primarily at Tufts Medical Center, providing outpatient and inpatient care in general nephrology. He has a clinical interest in patients with glomerular disease and patients with monoclonal gammopathy of renal significance, the latter of which he participates in a multi-specialty clinic with hematology.
Scott J. Gilbert, MD, FASN
Dr. Gilbert is the Director of the Fellowship Training Program and coordinates house staff nephrology education. At Tufts Medical Center, he oversees resident rotations on the inpatient Ward and Consult Services, and in the outpatient Kidney and Blood Pressure Center (KBPC). At TUSM, Dr. Gilbert is course director of the 2nd year course From Health to Disease, leader of the Renal section, and coordinates the 4th year Consultative Nephrology elective. Dr. Gilbert directs the required Objective Structured Clinical Examination for all 3rd year students. He sits on the steering committees for the Learning Communities, the Community Service Requirement, and the Educational Strategic Planning. Dr. Gilbert’s other educational activities include teaching Renal Pharmacology at the Sackler School of Graduate Biomedical Sciences and the Renal Section of Nutritional Biochemistry and Physiology in the Friedman School of Nutrition. Dr. Gilbert is active in pre-medical mentoring at Tufts University, and is faculty advisor of MAPS (Minority Association of Pre-medical Students), an organization for under-represented minorities with an interest in the health professions, and KDSAP (Kidney Disease Screening and Awareness Program), a student-run organization that provides blood pressure, blood sugar, and urinalysis screening in underserved communities in the Greater Boston area. Dr. Gilbert is Editor of the Primer on Kidney Diseases, and chair of the ASN Workforce and Training Committee. His clinical interests are the treatment of CKD, renal artery stenosis, hemodialysis, and transplantation. Dr. Gilbert is a Professor of Medicine at TUSM.

Craig E. Gordon, MD, MS
Dr. Gordon returned to Tufts Medical Center after 10 years at Boston Medical Center where he was an Associate Professor Medicine and served as the Training Program Director for the Nephrology Fellowship. Dr. Gordon serves in a variety of teaching roles at Tufts MC including developing a novel Integrated Cases course for second year medical students. Dr. Gordon also serves as the Associate Director of the Evidence Review Team and Assistant Project Director for the 2018 Update to the KDIGO clinical practice guidelines on HCV in chronic kidney disease and the upcoming KDIGO clinical practice guidelines on the Care of the Kidney Transplant Candidate. Dr. Gordon’s clinical/research interests focus on hepatitis C virus (HCV) in patients with chronic kidney disease (CKD) and in Thrombotic Microangiopathy (TMA), and he is actively developing a multidisciplinary TMA team at Tufts MC similar to the index team created at BMC as well creating a clinic to manage HCV patients with CKD. Additionally, Dr. Gordon evaluates potential kidney transplant donors and recipients in the transplant clinic and manages patients in the Center for Polycystic Kidney Disease. Dr. Gordon recently became Associate Editor of a new journal of the National Kidney Foundation, *Kidney Medicine*. Dr. Gordon is a “Visiting” Associate Professor of Medicine at Tufts University School of Medicine.

Nitender Goyal, MD
Dr. Goyal joined the Division in 2016 after completing his nephrology training at Tufts Medical Center and transplant nephrology training from University of Minnesota Medical Center. In 2017, he assumed the role Medical Director of Kidney Transplantation. Dr. Goyal primarily provides care for kidney transplant recipients and kidney donors. His research interest includes long-term kidney allograft outcomes and donor outcomes. He is an Assistant Professor of Medicine at TUSM.

Lesley A. Inker, MD, MS, FRCP (C)
Dr. Inker’s primary research interests are in kidney function measurement and estimation, outcomes for clinical trials of kidney disease progression, and epidemiology, outcomes, and practice management related to CKD. She is the co-principal investigator of CKD-EPI, a collaborative effort with the NIDDK to use pooled individual patient data to address central questions in the epidemiology of CKD, including developing improved GFR estimation equations, using these equations to refine prevalence estimates for CKD from National Health and Nutrition Examination Survey, and evaluating changes in proteinuria as a surrogate marker for kidney disease outcomes in clinical trials. Dr. Inker is currently investigating novel markers for estimation of GFR and prognosis of adverse outcomes in patients with CKD, and is a co-investigator on the Chronic Kidney Disease Biomarker Consortium (Bio-Con), a collaborative effort with the NIDDK to develop and validate novel biomarkers for chronic kidney disease. Dr. Inker continues in the investigation of alternative endpoints for clinical trials of kidney disease progression. She is the principal investigator of a study to evaluate proteinuria in IgA nephropathy and recently led the analytical team to evaluate alternative albuminuria and estimated GFR based outcome as part of an FDA-EMA-NKF scientific workshop held March 2018.
https://www.kidney.org/CKDEndpoints. She is the site principle investigator for trials in Alport’s Syndrome (https://www.tuftsmedicalcenter.org/ClinicalTrials/Search?q=&area=Alports+Syndrome&dept=&gender=&age=) and IgA nephropathy (https://www.tuftsmedicalcenter.org/ClinicalTrials/Nephropathy-1183952?q=&area=&dept=&gender=&age=). Dr. Inker’s clinical interests are general nephrology, GFR measurement and estimation, detection and treatment of CKD, geriatric nephrology, HIV-associated kidney disease and pregnancy and kidney disease. She is the Director of the Kidney and Blood Pressure Center, the Kidney Function Evaluation Center, and Quality Improvement.

**Bertrand L. Jaber, MD, MS, FASN, FNKF**

Dr. Jaber is the Interim Chair of Medicine at St. Elizabeth’s Medical Center (SEMC). His prior research efforts focused on the potential utility of genetic, plasma, and urinary markers in the prediction of development, early detection, and severity of acute kidney injury as well as adverse clinical outcomes. He has also conducted meta-analyses on preventive and treatment strategies for acute kidney injury and has examined the role of more frequent hemodialysis to treat chronic kidney failure. Dr. Jaber is a Professor of Medicine at TUSM and a faculty member of the Sackler School of Graduate Biomedical Sciences.

**Alin A. Joseph, MD, MS**

Dr. Joseph earned her MD from Drexel University's College of Medicine and her MS from Tufts University. She completed her internal medicine residency (2011) and clinical-research fellowship in nephrology (2014) at Tufts Medical Center. She then joined the Tufts Medical Center Division of Nephrology as a member of the clinical staff. Her nephrology practice is primarily in the outpatient setting at the Pratt Medical Office in Concord, MA. She also provides care to outpatients at Lawrence Memorial Hospital in Medford, MA. In 2018, Dr. Joseph assumed the role of Medical Director at DCI Walden Pond and is the Associate Medical Director at DCI Ball Square. She is the Consultant Nephrologist at Emerson Hospital and Assistant Professor of Medicine at TUSM.

**Amy B. Kuhlik, MD**

Dr. Kuhlik is the Dean for Student Affairs at TUSM. She maintains a clinical practice within the Division by holding one half-day clinic a week and also attending on the nephrology consult service several weeks a year. Dr. Kuhlik’s clinical specialties are CKD, pregnancy, and polycystic kidney disease.

**Eduardo Lacson, Jr., MD, MPH, FACP, FASN**

Dr. Lacson is an Adjunct Associate Professor of Medicine at Tufts University School of Medicine. His research interest covers late CKD and ESRD, with focus on care quality, quality improvement, and patient safety. His work covers epidemiological studies, translational research, and clinical performance measurement in health policy. He has served on multiple CMS Technical Expert Panels in dialysis care and international KDIGO consensus conferences. Dr. Lacson is currently Senior Medical Director for Clinical Science and Quality Initiatives for DCI and is a representative on several committees (Non-Profit Kidney Care Alliance, the Kidney Health Initiative, Kidney Care Partners Quality and Regulatory Work Group and a delegate of the CDC Making Dialysis Safer Coalition); a member of the ASN National Transforming Dialysis Safety QAIE Committee; and a member of the editorial board of the American Journal of Kidney Diseases. He developed and implemented the course in Quality Improvement for nephrology fellows since academic year 2016-2017. He is the editor of the inaugural edition of the NephSAP on prevention and control of infections in outpatient hemodialysis units scheduled for release in 2019.

**Nicolaos E. Madias, MD, FASN**

Dr. Madias is the Maurice S. Segal, MD Professor of Medicine at TUSM and the Academic Dean of TUSM at SEMC. Dr. Madias is interested in the broad field of acid-base and electrolyte metabolism. He is pursuing projects on various acid-base disorders, the epidemiology and management of dysnatremias, and the role of sodium and potassium in the pathogenesis of hypertension.

**Klemens B. Meyer, MD**

Dr. Meyer is Director of Dialysis Services at Tufts Medical Center, Medical Director at DCI Boston and DCI Ball Square, Associate Medical Director at DCI Walden Pond and Professor of Medicine at TUSM. Dr. Meyer’s clinical interests are
CKD and dialysis. His teaching interests involve the techniques of interpersonal care and end-of-life care. Dr. Meyer’s research interests are dialysis informatics, the measurement of patient experience and of the quality of care. He is also actively involved in data-driven quality improvement activities. In his capacity as DCI’s Medical Director for Information Systems, Dr. Meyer participates in the development and operations of both medical and business information systems. Dr. Meyer participated in the leadership of the ESRD Network of New England for 2 decades and served as President of the Board of Directors of the National Forum of ESRD Networks. He is a member of the Renal Disease and Detoxification Committee of the Association for the Advancement of Medical Instrumentation. In 2014, Dr. Meyer received the TUSM Distinguished Faculty Award. In 2016, he received the Nancy Johnson Heart Award from DCI.

DANA C. MISKULIN, MD, MS, FRCP (C)
Dr. Miskulin’s research interests include hypertension and fluid management in hemodialysis patients and interventions to slow polycystic kidney disease. Her clinical interests are in general nephrology and polycystic kidney disease. She collaborates closely with DCI’s Quality Management group and has published pivotal trials in dialysis. In 2018, she published a highly regarded paper on blood pressure assessment in hemodialysis patients in the Journal of the American Society of Nephrology. Dr. Miskulin is an Associate Professor of Medicine at TUSM.

MONIKA PILICHOWSKA, MD, PhD
Dr. Pilichowska’s primary appointment is in the pathology department at Tufts Medical Center. She is board certified in Anatomic and Clinical Pathology and Hematopathology and is a member of the Renal Pathology Society. Dr. Pilichowska has a special interest in kidney diseases and interprets kidney biopsies in patients with medical kidney disease and kidney transplants. She conducts a kidney biopsy conference at regular intervals for Division members. Her current research studies include renal involvement in lymphoproliferative disorders, autoreactive B-cell clones in systemic lupus erythematosus, and IgA nephropathy.

MICHELLE M. RICHARDSON, PHARM.D, BCPS, CPXP
Dr. Richardson is a member of the Special and Scientific Staff. Her research and programmatic interests involve assessing patient-based outcomes of health-related quality of life (HRQOL) and patient experience in patients with kidney disease. Since 1994, she has directed the Outcomes Monitoring Program (OMP) for DCI. The OMP was the first program of its kind to routinely use patient-reported outcomes in clinical care. In 2017, Dr. Richardson co-chaired the Patient-reported Outcome Technical Expert Panel convened by the University of Michigan Kidney Epidemiology and Cost Center and the Center for Medicaid and Medicare Services. She is also the Director of Communications, produces this Annual Report and maintains the Division’s web site.

DANIEL E. WEINER, MD, MS, FASN, FNKF
Dr. Weiner’s current research focuses on advanced kidney disease and dialysis care. Working with DCI, he is leading a large pragmatic trial of oral protein supplement use in hemodialysis patients, called the HELPS-HD Study; this trial has enrolled more than 8000 participants nationally and will be completed in 2020. Additional research evaluates the effect of traditional and non-traditional cardiovascular disease risk factors on cerebrovascular and cardiovascular disease outcomes, including cognitive function in people with kidney disease, patient experience in dialysis, patient decision making in advanced CKD, and advanced heart failure therapies in people with CKD. Dr. Weiner is past recipient of an R01 from the NIDDK to investigate the role of exercise in people with advanced kidney disease, including factors by which exercise may improve physical and cognitive health. Previously, he received a Carl W. Gottschalk Research Scholar Grant from the American Society of Nephrology and a K23 Career Development Award from the NIDDK. Additionally, he led Tufts’ involvement in the multicenter NIH-funded Systolic Blood Pressure Intervention Trial (SPRINT), which helped elucidate the appropriate blood pressure goal for antihypertensive treatment in non-diabetic adults and is continuing to work with the longer-term extension of SPRINT. He is also the lead investigator at Tufts in two trials investigating diabetic nephropathy. He is collaborating with public health researchers from Boston University to investigate CKD among workers in rural Nicaragua, and, in collaboration with Dr. Keren Ladin at Tufts University, he is the co-principal investigator on a mixed methods clinical trial evaluating decision making in advanced CKD, funded by PCORI.
Dr. Weiner is the Associate Medical Director of DCI Boston and is the Medical Director of Clinical Research for DCI. From October 2006 to December 2016, Dr. Weiner was the Deputy Editor of the American Journal of Kidney Diseases, and he currently is AJKD’s Policy Forum editor. He is the inaugural editor of a new National Kidney Foundation journal, Kidney Medicine. Dr. Weiner is the co-Editor in Chief of the National Kidney Foundation’s Primer on Kidney Diseases, 6th and 7th editions. Dr. Weiner is currently the chair of the American Society of Nephrology Quality Committee and represents the ASN at Kidney Care Partners. He was the chair of the 2016 Program Committee for the NKF Spring Clinical Meeting, a member of the 2015 NKF KDOQI Hemodialysis Guideline update workgroup, a member of NKF controversies conferences on uric acid in kidney disease and on home dialysis, and a member of the KDOQI workgroup commenting on recently released blood pressure guidelines. He has participated in several KDIGO workshops in 2018 and 2019, discussing controversial issues in dialysis and in cardiovascular diseases in people with kidney disease.

Dr. Weiner’s clinical specialties are general nephrology, hypertension, and home and in-center dialysis. Dr. Weiner was the past Chair of the Curriculum Committee at TUSM. He was promoted to Associate Professor in 2014.

SETH WRIGHT, MD, MS
Dr. Wright joined the Division as clinical staff in 2013 and is the Director of Continuing Medical Education. His clinical practice is primarily at Tufts Medical Center, providing outpatient and inpatient care for issues of general nephrology and internal medicine. His research focuses on the medical issues facing patients undergoing long-term outpatient dialysis, including infections. He has been the recent recipient of many teaching awards. In 2018, he received the Outstanding Teaching in the Clerkship Years Award from Tufts Medical Students.

Division Staff
Members of the support staff sustain the Division’s administrative, clinical, and research operations. Geneva Tucker, the Business Operations Manager, supervises nearly 20 personnel in the Division. The support personnel are diverse and each staff member brings specialized knowledge and skills to their respective positions. All administrative and clinical staff function as teams supporting operations and each other. Personnel are cross-trained, enabling each team to support day-to-day operations and the other, when the need arises. The ambulatory support staff also works very closely with our physicians, fellows, staff nurse, physician assistants, and transplant nurse practitioners to provide high-quality care and customer service to our patients. The Business Operations Manager also provides administrative support to the Division’s Fellowship program, currently staffed as 6 Clinical and Clinical Research/Training Grant full-time equivalents.

Administrative Support Staff

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Nicole Collado</td>
<td>Fellowship Program Coordinator</td>
</tr>
<tr>
<td>Lorna Davies</td>
<td>Administrative Coordinator</td>
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</tbody>
</table>

Pratt Medical Group Nephrology and Hypertension, Concord

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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<tbody>
<tr>
<td>Sharyn Moussawee</td>
<td>Administrative Coordinator</td>
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</tbody>
</table>
Kidney and Blood Pressure Center Staff

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Dawa Dolma</td>
<td>Medical Assistant/Practice Coordinator</td>
</tr>
<tr>
<td>Alison Kaprove, MS, PA-C, CAQ</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Lisa Leong, BS</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Qina Li</td>
<td>Medical Assistant/Practice Coordinator</td>
</tr>
<tr>
<td>Francisca Martinez</td>
<td>Clinic Supervisor</td>
</tr>
<tr>
<td>Jenny Moy</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Laticco Robinson, MPA, PA-C</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Christine Sullivan, MPA, PA-C, CAQ</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Finna Tam</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Veronika Testa, RN</td>
<td>Staff Nurse</td>
</tr>
</tbody>
</table>

Research Support Staff (i.e., Assistants, Associates, & Statisticians)

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Arushi Agarwal</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Juhi Chaudhari, MPH</td>
<td>Clinical Research Associate I</td>
</tr>
<tr>
<td>Sara Couture</td>
<td>Research Assistant II</td>
</tr>
<tr>
<td>Laura Diamond</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Eamon Flemming</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Margaret (Peggy) Healy</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Raabia Malik</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Riley Marotta</td>
<td>Research Assistant I</td>
</tr>
<tr>
<td>Jonathan (Shiyuan) Miao, MS</td>
<td>Clinical Research Associate II</td>
</tr>
<tr>
<td>Jasmine Rollins</td>
<td>Clinical Research Coordinator III</td>
</tr>
<tr>
<td>Andrew Simon</td>
<td>Research Associate II</td>
</tr>
<tr>
<td>Carly Tucker</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Theresa Wu</td>
<td>Clinical Research Coordinator I</td>
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Research Administration

Krista Boisclair, MS Research Administrator III, under the supervision of Director of Research Administration for the Department of Medicine, is responsible for assisting investigators and research staff in all aspects of managing grants and coordinating research activities of the Division. Research activities of the Division are discussed in more detail starting on page 39.

2018 Faculty and Staff Changes

Faculty Changes

- Dr. Craig Gordon joined the Division in September 2018. He previously was Associate Professor and Nephrology Training Program Director at Boston Medical Center. Dr. Gordon completed his clinical and research fellowships in the Division.
- Dr. Taimur Dad completed his clinical and research fellowship training at Tufts Medical Center and joined the Division’s attending physician staff.
Staff Changes

Research

- Teresa Wu resigned as a research coordinator for DeSALT Study to attend medical school. Laura Diamond replaced her. Laura previously was a PCT at Tufts Medical Center on North 4.
- Peggy Healy accepted an in-house Clinical Research Assistant position at Alira Health in Framingham after almost 3 years working in the Division with Ron. She was pivotal in the conduct of the PKD clinical trials.
- Apaar Dadlani volunteered in the Division. He completed medical school in India and worked on research/quality projects and shadowed in clinic with Dr. Goyal.
- Juhi Chaudhari, MPH joined the Division working with Dr. Inker. Juhi is a recent graduate of Tufts School for Public Health with an MPH with a concentration in Epidemiology/Biostatistics.
- Riley Marotta and Jonathan (Shiyuan) Miao, MS also joined Dr. Inker’s research team this year. Riley previously worked in the Division on a part time basis but started in July as a full-time study coordinator. He is enrolled in the Master of Biological Science program at Tufts. Jonathan recently graduated with a Masters Degree in Biostatistics from Brown University and worked with our long-term colleague Chris Schmid.
- Arushi Agarwal joined Dr. Weiner’s research team as a research coordinator. She works primarily on the decision aid trial (DART). Arushi graduated from Tufts University and replaced Eamon Flemming who resigned to return to school.
- Raabia Malik joined the PKD Clinical Research team. She is a graduate of Mount Holyoke College with prior experience as a volunteer in clinical research with a long-term interest in the health professions.
- Andrew Simon also resigned as a research associate.

Clinical

- Jenny Moy joined the division as a practice coordinator in the KBPC. Previously, Jenny was in GMA for 10 years.
- The kidney transplant team expanded this year. John Xin, MD, PhD joined the team as the new HLA Lab Director and Juliene Mitchell, RN as the new Recipient Evaluation Coordinator and Referral/Network Manager. After four years working with the kidney transplant team, Brian Bergeron, NP, moved to the Cardiomyopathy Unit as an inpatient nurse practitioner caring for patients with heart transplant, VAD, and heart failure. James Hansel, NP replaced Brian.
- After 30 years of caring for patients, most recently as the PD coordinator on North 7, Linda Hames, RN retired this summer.
Service

Service to Tufts Medical Center

- Dr. Dad is a member of the Tufts Medical Center Patient Experience Committee.
- Dr. Drew is a member of the Tufts Health Sciences Campus Investigational Review Board.
- Dr. Gilbert serves on the Internal Medicine Residency Clinical Competency Committee, the Graduate Medical Education Committee, and the Internal Medicine Residency Curriculum Committee and in 2017 he was appointed to the Graduate Medical Education Accreditation Subcommittee.
- Drs. Gilbert, Sarnak and Weiner are members of the Tufts Medical Center Internal Medicine Residency Selection Committee.
- Dr. Perrone is the Scientific Director of the Clinical and Translational Research Center (CTRC). Dr. Weiner is the Portal Navigator for the Tufts Clinical and Translational Science Institute (CTSI). Dr. Jaber is a member of the CTSI Steering Committee. Dr. Sarnak is a member of the CTSI Scientific Training and Review Committee.
- Drs. Sarnak and Weiner are members of the Clinical Research Program Advisory Committee for the Fellowship Program in the Institute for Clinical Research and Health Policies in the Division of Clinical Care Research.
- Dr. Sarnak is a member of the Physician Trustee Selection Committee.

Service to TUSM/Sackler School of Graduate Biomedical Sciences

- Dr. Gilbert is an Ex Officio member of the TUSM Curriculum Committee.
- Dr. Gilbert serves on the Learning Community Steering Committee and the Community Service Learning Effort Steering Committee, Innovations in Education Intramural Grant.
- Dr. Gilbert chairs the Objective Structured Clinical Examination (OSCE) Committee, the Curriculum Integration Committee, and the Pre-Clinical Course Directors Committee.
- Dr. Jaber is a member of the Committee on Committees and an ad hoc Member of a Subcommittee of the Clinical Faculty Appointment and Promotion Committee.
- Dr. Weiner is a member of the Tufts University Sackler School of Biomedical Sciences Programs and Faculty Committee.

Service to Professional Organizations

- Dr. Gilbert is a member of the Panel for Accreditation Appeals in Nephrology Accreditation Council for Graduate Medical Education. Dr. Gilbert also holds many positions within the ASN: Nephrology Training Program Directors Executive Committee, William and Sandra Bennett Clinical Scholars Grant Committee, Match Oversight Task Force, and the Mentor-Mentee Education Resources project. He also chairs the Nephrology Training Program Directors and Workforce Executive Committee.
- Dr. Gordon is a member of the Training Program Director Committee of the American Society of Nephrology.
- Dr. Goyal reviewed abstracts for the 2018 ASN Kidney Week meeting and the 2019 American Transplant Congress meeting being held in Boston.
- Dr. Inker is chair of the International Classification of Disease in the United States and a member of the Renal Working Group for development of 11th version of the International Classification of
Diseases Committee for the World Health Organization.

- Dr. Inker is a member of the National Institute for Diabetes, Digestive and Kidney Disease (NIDDK): Vascular Access Consortium External Advisory Committee.
- Dr. Inker is the chair of the Clinical Oversight committee for the National Kidney Foundation’s Kidney Early Education Program (KEEP).
- Dr. Lacson is a member of the ASN National Transforming Dialysis Safety QAIE Committee.
- Dr. Lacson is DCI’s representative on the following committees: Kidney Health Initiative, Non-Profit Kidney Care Alliance, and the CDC Making Dialysis Safer Coalition.
- Dr. Levey is a member of the NKF Scientific Advisory Board and a member of the KDIGO Executive Committee.
- Dr. Levey was appointed a member of the Living Donor Advisory Committee in the US Public Health Services’ Scientific Registry of Transplant Recipients’ (SRTR) Living Donor Collective.
- Dr. Meyer is the Medical Director for the DCI Information Systems and the Outcomes Monitoring Program. He is also a member of the Medical Information System Steering Committee.
- Dr. Meyer is a member of the Renal Disease and Detoxification Committee for the Association for the Advancement of Medical Instrumentation, the American Association of Kidney Patients Medical Advisory Board, and the USRDS Expert Advisory Committee.
- Dr. Meyer is a member of the steering committee for the Kidney Health Initiative Project Prioritizing Symptoms of ESRD Patients for Developing Therapeutic Interventions.
- Dr. Perrone is Co-Executive Director of the Polycystic Kidney Disease Outcomes Consortium.
- Dr. Perrone is chairman of the External Advisory Committee for the Kansas University PKD Core Center and chairman of the External Advisory Committee for the Mayo Translational PKD Center. He is also a member of the External Advisory Committee for the University of Maryland PKD Core Center.
- Drs. Perrone and Gilbert are members of the NKF of MA, NH, and RI Medical Advisory Board.
- Dr. Richardson is a member of the ESRD Quality Measure Development, Maintenance, and Support Project Functional Status Technical Expert Panel for the University of Michigan Kidney Epidemiology and Cost Center and the Center for Medicaid and Medicare Services.
- Dr. Weiner is the chair of the ASN Quality Committee and the ASN representative for Kidney Care Partners.
- Dr. Weiner is also a Grant Evaluator for DCI’s Paul Teschan Research Committee, Medical Director of Clinical Research, and a member of the DCI Medical Director Research Committee and Quality Management Committee.

Service in Guideline Development and Controversies Conferences

- Drs. Lacson and Weiner were invited conference participants at the KDIGO Controversies Conference on Dialysis Initiation, Modality Choice and Prescription held in Madrid Spain.
- Dr. Sarnak co-chaired and Dr. Weiner was an invited conference participant at the KDIGO Controversies Conference on Coronary Artery and Valvular Diseases in CKD held in Vienna Austria.
• Dr. Sarnak is a member of the Steering Committee for the KDIGO Controversies Conference on Blood Pressure in CKD. He is also a member of the KDIGO Blood Pressure Guideline Update committee.
• Dr. Sarnak is a member of the Steering Committee for the KDIGO Controversies Conference on Heart Failure in CKD.
• Dr. Weiner was an invited participant and discussion panelist for the National Kidney Foundation Home Dialysis Controversies Conference and a member of the NKF KDOQI Blood Pressure Guideline Commentary Workgroup.

2018 Administrative Awards and Honors
• Dr. Dad was selected to participate in the Tufts MC Physicians Organization’s (PO) Physician Leadership Program through the Boston University Questrom School of Business. Tufts MC PO selected 20 physicians for this 7-month program that includes classes, workshops, and a final project report. The purpose of the program is to focus on topics such as developing and refining leadership skills in physicians, understanding complex healthcare administrative structures, and finances.
• Dr. Goyal completed the Tufts MC Physicians Organization’s Physician Leadership Program through the Boston University Questrom School of Business.
Patient Care
**2018 Patient Care Initiatives**

Many initiatives implemented in 2018 improved patient experience and processes of care:

- The KBPC is one of three outpatient clinics chosen by Tufts Medical Center to pilot using Uber and Lyft as modes of transportation for patients coming to clinic. If successful, this new initiative would replace the cumbersome and ineffective taxi vouchers for patients coming to their appointments. The clinic is also working on expanding the valet/shuttle service to offer service to and from 35 Kneeland St to the Biewend building.
- Our medical assistants have become certified in their roles and the KBPC has procured AccuVein to improve phlebotomy to our patient population.
- Clinic staff created a Meds to Clinic program in conjunction with the Atrium 3 Pharmacy staff to better serve our patients who have decreased mobility in obtaining their prescriptions.
- The GFR testing program was expanded to include pediatric nephrology patients.

**Continuing Patient Care Initiatives—Outpatient Kidney and Blood Pressure Center**

Outpatient clinical activities take place primarily in the KBPC, directed by Dr. Inker. There are currently nine half-day-a-week clinics staffed by Drs. Drew, Gilbert, Inker, Kuhlik, Levey, Meyer, Miskulin, Perrone, Sarnak Weiner, and Wright.

The KBPC emphasizes a multi-disciplinary approach to kidney disease. Collaboration with the Division of Transplant Surgery, Department of Urology, the DCI outpatient dialysis unit, and the Frances Stern Nutrition Center improve the quality of care delivered. The KBPC specializes in the diagnosis and management of CKD, hypertension, glomerular diseases, kidney transplantation, kidney stones, and peritoneal dialysis. Ambulatory blood pressure monitoring and subcutaneous erythropoietin administration services are offered by the KBPC.

Many clinical studies on CKD occur in the clinic, including studies of polycystic kidney disease, blood pressure target in CKD, Alport’s disease, IgA nephropathy, diabetes, renal amyloid, dyslipidemia management in CKD, lupus nephritis (in conjunction with the Division of Rheumatology), transplant immunosuppression, cardiovascular disease in transplantation, computerized assessment of health-related quality of life, genetic predisposition to progression, and kidney function evaluation (see below). Active clinical trials can be found at https://www.tuftsmedicalcenter.org/ClinicalTrials/Search.aspx?q=&area=&dept=Nephrology&gender=&age=

In collaboration with Jane Maxim RN, DCI Ball Square Home Dialysis Nurse Manger, Veronika Testa, RN holds patient education sessions. The Kidney Replacement Options Meetings are facilitated discussions held every quarter for CKD Stage 4 and Stage 5 patients who would benefit from open discussion of hemodialysis (center based vs. home based), peritoneal dialysis, and kidney transplantation. The meeting is open to both patients and family members.

**Kidney Function Evaluation Clinic**

The Kidney Function Evaluation Center, under the direction of Dr. Inker, is a Boston-wide resource for confirmatory tests for GFR estimated from creatinine. Patients whose estimates of GFR using creatinine are not thought to be accurate are referred to the Center for measurement of GFR using plasma clearance of iohexol. GFR is estimated using both creatinine and cystatin C and a report is sent to the referring physicians for a complete interpretation of the GFR values. For example, it may be useful in patients who will be undergoing chemotherapy with agents that are cleared by the kidneys, potential kidney donors with high muscle mass who are thought to have falsely low estimated GFR, or patients with CKD who have low...
muscle mass who have symptoms that could be consistent with uremia.

**Center for Polycystic Kidney Disease**

In 2006, Dr. Perrone opened The Center for Polycystic Kidney Disease at Tufts Medical Center (https://www.tuftsmedicalcenter.org/patient-care-services/Departments-and-Services/Nephrology/Clinical-Care-Services/Center-for-PKD.aspx)

This multidisciplinary clinic offers comprehensive, coordinated care for patients with PKD. The Center’s physicians are internationally recognized experts in treating and managing the complications of PKD. In addition to Drs. Perrone, Gordon, and Miskulin of the Division of Nephrology, physicians from transplant surgery, cardiothoracic surgery, urology, neurosurgery, and clinical genetics participate in the Center. Areas of expertise include providing coordinated care for chronic kidney disease including dialysis and transplantation, treatment of hypertension, and evaluation and management of the complications of liver and kidney cysts including chronic pain, kidney stones, and cardiovascular issues including intracranial aneurysms.

Multidisciplinary consultations are provided in collaboration with Gennaro Carpinito, MD, Urologist-in-Chief and Charles M. Whitney Professor and Chairman, Department of Urology; Adel Malek, MD, Chief, Division of Neurovascular Surgery; Jeffrey Cooper, MD, Chief, Transplant Surgery; Sajani Shah, MD, Surgeon, Bariatric and Minimally Invasive Surgery; Michael Tarnoff, MD, Surgeon, Minimally Invasive Surgery Center; and Laurence H. Brinckerhoff, MD, Division of Thoracic Surgery. This center also addresses the complications of PKD resulting in new transplants, aneurysm repair, video thorascopic splanchnicectomy (VSPL) for relief of intractable cyst pain and laparoscopic cyst reduction.

As part of the PKD Center, Dr. Perrone holds a PKD clinic during which he and Drs. Miskulin and Gordon see new patients referred specifically for expert advice regarding complications of cystic disease. This clinic meets biweekly and is staffed in rotation by Drs. Perrone or Gordon and Miskulin with participation by clinical or research fellows on a rotating basis and provides a unique opportunity to see the wide range of complications in this disease.

Drs. Perrone and Miskulin also participate in clinical trials for patients with PKD including tesevatinib (Kadmon), TAME (metformin), and venglustat (STAGED-PKD, Sanofi).

**Kidney Transplantation Program**

New evaluations of potential kidney transplant recipients are performed in a single morning or afternoon session by a multidisciplinary team consisting of transplant coordinator, transplant nephrologist, transplant surgeon, social worker, dietician, and pharmacist. The Division of Nephrology has established a specific Kidney Transplant follow-up clinic for recent kidney transplant recipients on Tuesday mornings staffed by Dr. Goyal. Potential living donors are also evaluated in one half day by Drs. Gordon and Goyal on Mondays and Thursdays. The kidney transplant program has excellent overall outcomes; patient and graft survival rates are well above the national average.

A very special kidney transplant from a son-in-law to his father-in-law at Tufts Medical Center was featured on WBZ 4 Health Watch with Dr. Malika Marshall. To see the interview with the patients and Dr. Strom, transplant surgeon, go to http://boston.cbslocal.com/2018/03/19/son-in-law-donates-kidney-father-in-law-who-was-kidney-failure/
Home Dialysis
The Division of Nephrology treats almost 1/3 of its dialysis patients by home dialysis. We participate in a regional home dialysis program, directed by Dr. Meyer, which treats about 50 patients by peritoneal dialysis and home hemodialysis at DCI’s Ball Square facility in Somerville. Jane Maxim, RN, who has more than 40 years’ experience in dialysis, is the program’s Nurse Manager. She leads a team of four nurses, a dietician, and a social worker. In addition to English, the nurses speak Cantonese, Mandarin, and Vietnamese. We offer urgent start peritoneal dialysis and respite home hemodialysis and peritoneal dialysis for patients relying on family members to assist with their treatment. The program prides itself on its flexibility, training patients on evenings and weekends when necessary, and making accommodations to minimize the disruption of patients’ lives by dialysis treatment. The nurses have become expert at training the staff of long-term care facilities, and maintaining their skills. The program won DCI’s 2013 Darwin Peterson Award for the best peritoneal dialysis program throughout DCI’s national network of more than 200 dialysis facilities. Drs. Cohen, Joseph, Meyer, Miskulin, and Weiner hold monthly home dialysis clinics at DCI Ball Square.

Table 3: Outpatient Hemodialysis Programs Affiliated with Tufts Medical Center

<table>
<thead>
<tr>
<th>Location</th>
<th>Dialysis Program</th>
<th>Medical Directors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tufts Medical Center</td>
<td>DCI Boston</td>
<td>Klemens B. Meyer MD, Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Daniel E. Weiner MD, MS Associate Medical Director</td>
</tr>
<tr>
<td>Somerville</td>
<td>DCI Ball Square</td>
<td>Klemens B. Meyer MD, Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Michael B. Cohen MD, Associate Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alin Joseph MD, MS Associate Medical Director</td>
</tr>
<tr>
<td>Concord</td>
<td>DCI Walden Pond</td>
<td>Alin Joseph, MD, MS Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Klemens B. Meyer MD, Associate Medical Director</td>
</tr>
</tbody>
</table>

In-center Hemodialysis
Table 3 lists the dialysis programs affiliated with the Division of Nephrology. Since 1986, the dialysis program at Tufts Medical Center has been operated by Dialysis Clinic, Inc. (DCI, www.dciinc.org), a national not-for-profit dialysis organization which sets the national benchmark for quality of care. Recent highlights of our facilities’ performance, as reported by the University of Michigan Kidney Epidemiology and Cost Center in July 2018, include: all three facilities had higher than average rates of influenza vaccination; in 2017, at all three facilities, fewer patients had hemoglobin values below 10 g/dL (DCI Boston 9%, DCI Ball Square 6%, DCI Walden Pond 3%, national average 17%). Patients dialyzing at DCI Walden Pond had a standardized mortality ratio for 2014-2017 of 0.57 (p < 0.05); in 2017, DCI Boston had only 3% long term catheters, DCI Walden Pond only 5%, compared to 11% nationally. DCI Boston’s 2017 Standardized Transplant Ratio was 121% higher than expected, and DCI Ball Square’s was 225% higher than expected, both p>0.05.

DCI Boston
Drs. Meyer and Weiner direct the DCI Boston dialysis program located at Tufts Medical Center. The DCI Boston in-center hemodialysis facility at 35 Kneeland Street treats approximately 100 patients. The unit operates 5 shifts, including one of the few evening shifts in Greater Boston. The hemodialysis nursing staff have a median of more than 25 years’ experience in dialysis. Chad Stevenson, RN serves as Nurse Manager, and Ferdie Cigaral, RN as Assistant Nurse Manager. Dr. Meyer’s and Weiner’s offices are adjacent to the dialysis unit, and the other dialysis attending physicians and fellows have offices one floor above. Physical proximity makes frequent patient contact practical and facilitates interaction between physicians and dialysis staff. Physicians round on each patient shift twice a week.
**DCI Ball Square (Somerville MA)**

Dr. Meyer is the Medical Director and Drs. Cohen and Joseph are the Associate Medical Directors. In addition to the large home program, DCI Ball Square treats approximately 85 in-center hemodialysis patients. Dr. Tony Dash opened this program in 1999, and directed it until June 2015, when he relocated to his home town of Seattle, WA. Agnes Rawski, RN serves as Nurse Manager of the in-center hemodialysis program.

**DCI Walden Pond (Concord MA)**

DCI Walden Pond opened in 2003. In 2018, Dr. Joseph assumed the role of Medical Director, following in the footsteps of Dr. Meyer who had filled the role for many years. Dr. Meyer is now the Associate Medical Director. DCI Walden Pond treats 45 hemodialysis patients; John D’Antonio, RN serves as Nurse Manager.

**Outpatient Volume**

All volume numbers are for the Tufts Medical Center and DCI fiscal year 2018 (October 2017—September 2018), unless otherwise stated.

Table 4: Outpatient Clinical Activity: Fiscal Year 2017 vs. 2018

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tufts Medical Center</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kidney Blood Pressure Center</td>
<td>5,680</td>
<td>6,028</td>
</tr>
<tr>
<td>Pratt Medical Group Nephrology and Hypertension, Concord</td>
<td>1,878</td>
<td>1,716</td>
</tr>
<tr>
<td><strong>Dialysis Clinic, Incorporated</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boston (Tufts Medical Center) hemodialysis treatments</td>
<td>14,987</td>
<td>13,619</td>
</tr>
<tr>
<td>Ball Square hemodialysis treatments</td>
<td>11,800</td>
<td>12,190</td>
</tr>
<tr>
<td>Ball Square home-dialysis patients</td>
<td>50</td>
<td>52</td>
</tr>
<tr>
<td>Walden Pond hemodialysis treatments</td>
<td>6,539</td>
<td>6,740</td>
</tr>
</tbody>
</table>

Table 5: Outpatient Dialysis Visits by Division Physicians at Affiliated Units: Fiscal Year 2017 vs. 2018

<table>
<thead>
<tr>
<th>Dialysis Unit</th>
<th>Number of Visits Fiscal Year 2017</th>
<th>Number of Visits Fiscal Year 2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Elizabeth’s Medical Center</td>
<td>94</td>
<td>86</td>
<td>-8.5%</td>
</tr>
<tr>
<td>Lawrence Memorial</td>
<td>77</td>
<td>62</td>
<td>-19.5%</td>
</tr>
<tr>
<td>Saugus</td>
<td>123</td>
<td>192</td>
<td>56%</td>
</tr>
<tr>
<td>Stoneham</td>
<td>400</td>
<td>361</td>
<td>-9.8%</td>
</tr>
</tbody>
</table>

Table 6: Ambulatory Visits by Division Physicians at Affiliated Clinics: Fiscal Year 2017 vs. 2018

<table>
<thead>
<tr>
<th>Ambulatory Clinics</th>
<th>Number of Visits Fiscal Year 2017</th>
<th>Number of Visits Fiscal Year 2018</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawrence Memorial</td>
<td>545</td>
<td>515</td>
<td>-5.5%</td>
</tr>
<tr>
<td>Reading</td>
<td>873</td>
<td>882</td>
<td>1%</td>
</tr>
</tbody>
</table>
Continuing Patient Care Initiatives—Inpatient

Every 14 days, the Division's nephrologists rotate responsibility for care of patients hospitalized on the inpatient nephrology service at Tufts Medical Center. The nephrology and dialysis staff work closely with the nursing staff on North 7, the inpatient nephrology floor, to maintain continuity of care. In addition, all Division attending physicians participate in the inpatient nephrology consultation service. The consultation service responds to over 70 requests monthly for evaluation of acute kidney injury, chronic kidney disease, fluid and electrolyte disorders, glomerulonephritis, hypertension, and solid organ and bone marrow transplant-related issues. The nephrology consultation service also provides expertise for all forms of renal replacement therapy, including but not limited to hemodialysis, peritoneal dialysis, and continuous renal replacement therapy (CVVHD and SCUF). Under the supervision of staff physicians, Division fellows perform all temporary access procedures required for initiating hemodialysis, including ultrasound-guided femoral and central catheter insertions.

Kidney Transplantation

The Tufts MC Kidney Transplant Team performed 39 kidney transplants in 2018 (15 living donor, 23 deceased donor). Figure 1 shows the change in the number of kidney transplants over time.

Dr. Goyal is the Medical Director of the Tufts Medical Center Kidney Transplant Program. Tufts Medical Center is also an active participant in the UNOS Kidney Paired Donation Project that has centralized the coordination of sharing by mismatched donor-recipient pairs so as to allow regional and national paired-donor exchanges. Patients who have received transplants are seen weekly in the Kidney and Blood Pressure Center in the initial months following the transplant, thereafter at increasing intervals. The transplant team at Tufts Medical Center has conducted more than 1,250 kidney transplants. In 2016, the kidney transplant program had its 45th anniversary.

Inpatient Dialysis

Inpatient hemodialysis is performed in the Floating 7 inpatient dialysis unit and in Tufts Medical Center intensive care units. DCI, the hospital’s inpatient dialysis provider, assigns nurses to perform inpatient hemodialysis treatments and to oversee and facilitate CVVHD treatments in the intensive care units. Linda Courtemanche, RN manages the inpatient dialysis program, which she joined in 1986. The staff perform both pediatric and adult intermittent hemodialysis and CVVHD.

Inpatient peritoneal dialysis is performed in intensive care units and on the North 7, an inpatient adult
medicine ward, by trained nursing staff. **Margaret (Peggy) Davoren, RN** replaced **Linda Hames, RN** upon her retirement in 2018 and provides peritoneal dialysis nursing education for staff on North 7 and throughout the hospital. The inpatient care of peritoneal dialysis patients admitted from the DCI Ball Square program is closely coordinated with their ongoing outpatient care.

**Continuous Renal Replacement Therapy**

In 2018, Dr. **Perrone** stepped down as director of the continuous renal replacement therapies (e.g., continuous venovenous hemodialysis and slow continuous ultra filtration) program. Dr. **Wright** assumed the role of director of the program, which uses NxStage System 1 machines to perform continuous venovenous hemodialysis (CVVHD). These therapies support critically ill patients who have developed acute kidney injury as a complication of their underlying illnesses, other treatments, or surgery. Growing solid organ and bone marrow transplantation, cardiac surgery, and oncology programs will increase utilization of continuous renal replacement therapies.

**Inpatient Volume**

All clinical activity numbers in Tables 7 and 8 are from the fiscal year October 2017 to September 2018, unless otherwise indicated.

**Table 7: Inpatient Clinical Activity: Fiscal Year 2017 vs. 2018**

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2017</td>
<td>2018</td>
</tr>
<tr>
<td><strong>Tufts Medical Center</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient-days of service: Nephrology Consult &amp; Ward Services</td>
<td>10,924</td>
<td>10,481</td>
</tr>
<tr>
<td>Kidney transplants*</td>
<td>48</td>
<td>39</td>
</tr>
<tr>
<td>Days of CVVH treatments</td>
<td>836</td>
<td>838</td>
</tr>
<tr>
<td><strong>St. Elizabeth’s Medical Center</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>924</td>
<td>707</td>
</tr>
<tr>
<td><strong>Emerson Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>837</td>
<td>879</td>
</tr>
<tr>
<td><strong>Lawrence Memorial Hospital</strong>**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>543</td>
<td>68</td>
</tr>
<tr>
<td><strong>Melrose Wakefield Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>2,266</td>
<td>2,463</td>
</tr>
<tr>
<td><strong>Whidden Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>141</td>
<td>124</td>
</tr>
</tbody>
</table>

*Calendar year 2018
**In 2018, Lawrence Memorial closed its inpatient units and became outpatient care only.
Division Quality Improvement

The division remains committed to improving the quality of care both for our patients and patients throughout the institution. Dr. Inker is Director for Quality Improvement for the Division.

Morbidity and Mortality Rounds

Morbidity and Mortality rounds are held approximately six times a year and provide the opportunity for fellows and attending physicians to discuss issues related to problems in knowledge or delivery of care that lead to patient poor outcomes, with the goal to develop systems to avoid these problems in the future. The focus of the fellows rounds are on quality improvement activities. Fellows are responsible for identifying a target behavior, measuring the appropriateness of delivered care, and presenting their findings at a Division conference. In this past year, several attending physicians presented specific patient cases.

Community Service/Patient Education

Division staff members actively participate in community projects, particularly in neighboring Chinatown. In addition to health screenings, the Division has focused on education for health care providers, patients, and the general community.

<table>
<thead>
<tr>
<th>Event</th>
<th>Month</th>
<th>Number of People</th>
<th>Division Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boston Health Commission—Hypertension</td>
<td>February</td>
<td>10</td>
<td>Dr. Meyer</td>
</tr>
<tr>
<td>Boston Health Commission—Hypertension</td>
<td>March</td>
<td>20</td>
<td>Dr. Meyer</td>
</tr>
<tr>
<td>PKD Foundation Presentation Tolvaptan—Beginning a new era for PKD treatment? Codman Health Center Dorchester MA</td>
<td>April</td>
<td>25</td>
<td>Dr. Perrone</td>
</tr>
<tr>
<td>PKD Foundation—Online Presentation JYNARQUE™ (Tolvaptan): The First FDA-Approved Treatment for ADPKD</td>
<td>April</td>
<td>500</td>
<td>Dr. Perrone</td>
</tr>
</tbody>
</table>

2018 Patient Care Awards and Honors

- In 2018, Alison Kaprove and Christine Sullivan passed a nephrology specialty exam for PAs and earned the CAQ credential. The CAQ is a voluntary credential that Certified PAs can earn in seven specialties: Cardiovascular & Thoracic Surgery, Emergency Medicine, Hospital Medicine, Nephrology, Orthopaedic Surgery, Pediatrics and Psychiatry. To qualify, PAs must first satisfy two basic pre-requisites: (1) current PA-C certification and (2) possession of a valid, unrestricted license to practice as a PA in at least one jurisdiction in the United States or its territories, or unrestricted privileges to practice as a PA for a government agency. (Note: If a PA holds licenses in multiple states, all of the licenses must be unrestricted.) The CAQ has four core requirements: (1) Category 1 specialty CME, (2) one to two years of experience in the specialty, (3) a physician attestation, and (4) a specialty exam.
- Veronika Testa, RN in the KBPC received two nominations for the 2018 Boston Salute to Nurses. Her
colleagues said:

“I have worked closely with Veronika for many years, and still do. She has initiated and managed a kidney disease education program for patients approaching transplant and dialysis, helping to resolve these patients’ fears and concerns at an important transition in their care. She has organized flu clinics, shuttle services, and medication administration in the clinic with minimal oversight and at a very high level. She also coordinates closely with the main hospital to make sure that transitions of care are seamless.
Veronika is caring and gentle with patients, providing food to diabetic patients with low blood sugars. She also works closely with the clinic support staff as a mother figure, making sure everyone is happy and well taken care of.”—*Nominated by Ronald Perrone*

“Veronika is thoughtful, funny, considerate, and beyond helpful in so many ways it’s difficult to put into words. She deals with the insurance company when my medication has not been delivered, she deals with the supplier when my medication is in limbo, and she does a lot of this after hours, on her own time, without hesitation, and without my asking her to help. It’s her instinct to jump in and assist her patients at any time of day, whether she is working or not.
Her clinical expertise goes beyond the kidney department. She monitors my health, my well-being, and everything else in between. She is the fairy godmother of nurses—she puts each patient first, and you feel like she truly cares. And she remembers every detail of every discussion, whether it be medical or a fun fact about one of my children.
I can’t say enough about how valuable Veronika is to the Tufts community, and I am very fortunate to have her as part of my health care team”—*Nominated by Karen Rose-Gillis*

- At Dialysis Clinic, Inc.’s 2018 Annual Meeting, the Boston-area DCI clinics received the following patient care awards: DCI Ball Square 2 Star Award, DCI Walden Pond 3 Star Award, and DCI Boston 4 Star Award. Of DCI’s 230+ clinics, DCI Boston was one of only 14 clinics to receive 4 stars, acknowledging their hard work meeting clinical benchmarks in albumin concentrations, dialysis adequacy, dialysis access, and anemia treatment each month.
- The DCI Somerville home program was the recipient of a 2 Star Award at the DCI Home Meetings held in April. A star is awarded for meeting each benchmark (anemia, peritonitis rate, Kt/V and patients gained) during the preceding four quarters.
- The Division was one of only two Divisions in the Medical Center to receive High Performing status from the US News and World Report 2018-2019 Hospital Ranking.
- Boston Magazine found out what we all already know - we have some of Boston's Best Doctors! Congrats to Drs. Gilbert, Inker, Jaber, Levey, Meyer, Perrone, Sarnak, and Weiner who were listed in the Boston Magazine 2019 Best Doctors issue published in December 2018.
Research conducted in the Division is focused on solving clinical problems. Each research project has a domain expert, in most cases a nephrologist, a methods expert, and collaborators from other disciplines. The location of the Division offices, the KBPC, and the DCI Boston dialysis unit on 3 adjacent floors in the same building has been a major reason for the Division’s success in performing clinical research.

Division members collaborate with methods experts to use the research methods appropriate for epidemiology, clinical trials, development of clinical practice guidelines, and outcomes. We collaborate with domain experts to focus on the research areas of: CKD, assessment of kidney function, aging, nutrition, dialysis and transplantation, progression, polycystic kidney disease, acute kidney injury, and hypertension.

2018 Research Findings in the News

- Results from the SPRINT MIND study, which Dr. Weiner is a co-investigator, were widely publicized on local media stations WBUR and WCVB. Both reports included contributions by Dr. Weiner.
- Dr. Perrone was interviewed by a local television news station about tolvaptan’s approval by the FDA and its effect on patients. Ron’s team participated in the trials that led to approval of this medication. [http://www.wcvb.com/article/revolutionary-drug-offers-first-treatment-for-devastating-kidney-disease/20954511](http://www.wcvb.com/article/revolutionary-drug-offers-first-treatment-for-devastating-kidney-disease/20954511)

2018 New Research Grant Awards

Figure 2, Table 9 and Table 10 illustrate the research grant awards received by Division members.

![Bar chart showing research grant awards by type for FY15 to FY18](chart.png)

Figure 2: Division of Nephrology Research Grant Awards FY 2015-2018, by type.
Table 9: New Research Grant Awards Received in 2018

<table>
<thead>
<tr>
<th>PI</th>
<th>Award Source/Years</th>
<th>Type of Award</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inker</td>
<td>NIH</td>
<td>Federal</td>
<td>Medication Use and Adverse Events in CKD</td>
</tr>
<tr>
<td>Omeros</td>
<td>Industry</td>
<td></td>
<td>A randomized, double-blind, placebo-controlled, phase 3 study of the safety and efficacy of OMS721 in patients with Immunoglobulin A (IgA) Nephropathy (ARTEMIS-IGAN)</td>
</tr>
<tr>
<td>Reata</td>
<td>Industry</td>
<td></td>
<td>A phase 2 trial of the efficacy and safety of Bardoxolone Methyl in patients with rare chronic kidney diseases.</td>
</tr>
<tr>
<td>DCI</td>
<td>Max 3 years</td>
<td>Foundation</td>
<td>Accuracy of GFR Estimates in Advanced Heart Failure</td>
</tr>
<tr>
<td>Levey</td>
<td>NIH</td>
<td>Federal</td>
<td>Chronic Kidney Disease Prognosis Consortium</td>
</tr>
<tr>
<td>Miskulin</td>
<td>DCI</td>
<td>Foundation</td>
<td>Prepared Meals to Prime and Perpetuate Reduced Dietary Sodium Intake in - Hemodialysis (PePPeR DISH)</td>
</tr>
<tr>
<td>Sarnak</td>
<td>NIH</td>
<td>Federal</td>
<td>Role of Mitochondrial Health in Acute and Chronic Kidney Disease in Older Adults</td>
</tr>
<tr>
<td>NIH</td>
<td>5 years</td>
<td>Federal</td>
<td>Vitamin D and type 2 diabetes (D2d)</td>
</tr>
<tr>
<td>NIH</td>
<td>1 year</td>
<td>Federal</td>
<td></td>
</tr>
<tr>
<td>Weiner</td>
<td>PCORI</td>
<td>Industry</td>
<td>Promoting Autonomy and Improving Shared Decision-Making for Older Adults with Advanced Kidney Disease</td>
</tr>
<tr>
<td>Ardelyx</td>
<td>2 years</td>
<td>Industry</td>
<td>A 26-week, phase III, open label study with a 12-week, placebo-controlled, randomized withdrawal period followed by an open label long term safety extension to evaluate the safety and efficacy of Tenapanor to treat hyperphosphatemia in end-stage renal disease patients on hemodialysis and peritoneal dialysis.</td>
</tr>
</tbody>
</table>

**Total Amount and Type of Research Grant Awards**

Table 10 shows research grant awards received by Division members before 2018.

Table 10: Ongoing Research Grant Awards Received Prior to 2018

<table>
<thead>
<tr>
<th>PI</th>
<th>Award Source</th>
<th>Type of Award</th>
<th>Title</th>
<th>Year of Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dad</td>
<td>DCI</td>
<td>Foundation</td>
<td>Psychometric and Qualitative Evaluation of the In-Center Hemodialysis Consumer Assessment of Healthcare Providers and Systems (ICH CAHPS).</td>
<td>2017</td>
</tr>
<tr>
<td>Drew</td>
<td>NIH</td>
<td>Federal K23</td>
<td>The Association of FGF-23 and Klotho with Cognitive Impairment and Cerebrovascular Disease in Chronic Kidney Disease</td>
<td>2016</td>
</tr>
<tr>
<td>Inker</td>
<td>NIH</td>
<td>Federal</td>
<td>CKD Biomarkers Consortium Data Coordinating Center</td>
<td>2018</td>
</tr>
<tr>
<td>Otsuka</td>
<td>Industry</td>
<td></td>
<td>Metabolomics to Study Treatment Effect and Toxicities of Tolvaptan in Tolvaptan Efficacy and Safety in Management of Autosomal Dominant Polycystic Kidney Disease and Its Outcome (TEMPO) 3:4 trial</td>
<td>2015</td>
</tr>
<tr>
<td>NKF</td>
<td>Foundation</td>
<td></td>
<td>Change in Albuminuria and GFR as End Points for Clinical Trials in Early Stages of CKD</td>
<td>2016</td>
</tr>
<tr>
<td>NIH</td>
<td>Federal U01</td>
<td></td>
<td>CKD Biomarker Consortium-Phase 2: Risk Markers in Blood</td>
<td>2016</td>
</tr>
<tr>
<td>Reata</td>
<td>Industry</td>
<td></td>
<td>A Phase 2/3 Trial of the Efficacy and Safety of Bardoxolone Methyl in Patients with Alport Syndrome</td>
<td>2017</td>
</tr>
<tr>
<td>Retrophin</td>
<td>Industry</td>
<td></td>
<td>Sparsentan for the treatment of primary IgA nephropathy: A study to support the application of early change in proteinuria as a surrogate endpoint for accelerated approval and eGFR slope as the confirmatory endpoint</td>
<td>2017</td>
</tr>
</tbody>
</table>
Table 10: Ongoing Research Grant Awards Received Prior to 2018 Continued

<table>
<thead>
<tr>
<th>PI</th>
<th>Award Source</th>
<th>Type of Award</th>
<th>Title</th>
<th>Year of Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miskulin Perrone</td>
<td>DCI</td>
<td>Foundation</td>
<td>The Dialysate Sodium Lowering Trial (DESALT)</td>
<td>2016</td>
</tr>
<tr>
<td>Otsuka</td>
<td>Industry</td>
<td>A Phase 3b, Multi-center, Open-Label Trial to Evaluate the Long-Term Safety of Titrated Immediate-release Tolvaptan (OPC-41061, 30 mg to 120 mg/day, split dose) in Subjects with Autosomal Dominant Polycystic Kidney Disease.</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td>DOD</td>
<td>Federal</td>
<td>Metformin as a Novel Therapy for Autosomal Dominant Polycystic Kidney Disease</td>
<td>2015</td>
<td></td>
</tr>
<tr>
<td>Kadmon</td>
<td>Industry</td>
<td>A double-blind randomized parallel group study of the efficacy and safety of Tesevatinib in subjects with Autosomal Dominant Polycystic Kidney Disease</td>
<td>2017</td>
<td></td>
</tr>
<tr>
<td>Sarnak</td>
<td>NIH</td>
<td>Kidney Tubular Damage and Dysfunction Identify a Novel Axis of Kidney Disease</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Federal U01</td>
<td>Beyond the Glomerulus: Novel Clinical Markers of Kidney Health and Prognosis</td>
<td>2016</td>
<td></td>
</tr>
<tr>
<td>NIH/NIDDK</td>
<td>Federal T32</td>
<td>Epidemiology, Clinical Trials and Outcomes Research</td>
<td>1999</td>
<td></td>
</tr>
<tr>
<td>Weiner</td>
<td>Janssen</td>
<td>A randomized, double-blind, event-driven, placebo-controlled, multicenter study of the effects of Canagliflozin on Renal and Cardiovascular Outcomes in subjects with Type 2 Diabetes Mellitus and Diabetic Nephropathy. The CREDEENCE Trail (Canagliflozin and Renal Events in Diabetes with Established Nephropathy Clinical Evaluation Trial).</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td>NIH</td>
<td>Federal</td>
<td>Sugarcane Workers, Medical Visits and Kidney Function</td>
<td>2016</td>
<td></td>
</tr>
<tr>
<td>NIH</td>
<td>Federal</td>
<td>Coherent hemodynamics spectroscopy for cerebral auto regulation and blood flow</td>
<td>2016</td>
<td></td>
</tr>
<tr>
<td>NIH</td>
<td>Federal</td>
<td>Biological Determinants of Peritoneal Dialysis Outcomes</td>
<td>2017</td>
<td></td>
</tr>
<tr>
<td>Baxter</td>
<td>Industry</td>
<td>A multi-center, prospective, randomized, controlled, open-label, parallel study to evaluate the safety and efficacy of the Theranova 400 Dialyzer in End Stage Renal Disease (ESRD) patients</td>
<td>2017</td>
<td></td>
</tr>
<tr>
<td>AstraZeneca</td>
<td>Industry</td>
<td>A study to evaluate the effect of Dapagliflozin on renal outcomes and cardiovascular mortality in patients with Chronic Kidney disease</td>
<td>2017</td>
<td></td>
</tr>
<tr>
<td>NIH</td>
<td>Industry</td>
<td>The SPRINT Alzheimer’s, Seniors and Kidney Study (SPRINT ASK)</td>
<td>2017</td>
<td></td>
</tr>
<tr>
<td>NIH</td>
<td>Federal</td>
<td>Integrated Mineral metabolism Treatment Strategies in Patients on Dialysis</td>
<td>2017</td>
<td></td>
</tr>
</tbody>
</table>

2018 Division Publications

2018 Print Publications

A total of 85 print publications and 12 epublications were authored and/or co-authored by Division members in 2018. An asterisk beside a name indicates a current trainee as an author.


34. **Inker LA**. A roadmap for estimated glomerular filtration rate: where have we been, where we are now, and where do we need to go? Adv Chronic Kidney Dis 2018; 25:4-6; PMID:29499885.


58. **Li Q, Trivedi AN, Galarraga O, Chernew ME, Weiner DE, Mor V.** Medicare advantage ratings and voluntary disenrollment among patients with end-stage renal disease. Health Aff (Millwood) 2018; 37:70-77; PMID:29309223.


2018 Epublications


### 2018 Research Awards and Honors

- **Dr. Inker** was the 2018 recipient of the National Kidney Foundation’s Garabed Eknoyan Award. The award, established in 2002, recognizes an individual who has promoted the mission of the NKF in making lives better for people with kidney disease through exceptional contributions to key initiatives of the NKF such as the Kidney Disease Outcomes Quality Initiative (KDOQI) or clinical research in the field of kidney disease. Lesley received the award during the NKF’s Spring Clinical Meetings (SCM18) held in Austin, TX in April 2018.

- **Dr. Levey** was named a 2018 Clarivate Analytics Highly Cited Researcher for the 5th year in a row!! Very few researchers earn this distinction. Selection criteria are based on production of multiple highly cited papers in the last decade. A highly cited paper is defined as papers ranking in the top 1% by citations, considering both year and field of publication.
M21: Health to Disease I: Renal

SYLLABUS

COURSE DIRECTORS:
SCOTT GILBERT, MD
MONIKA PILICHOWSKA, MD

Second Year
Fall Semester 2018
Academic Year 2018-2019
The Division is committed to education. Local and national initiatives involve all members of the Division. National efforts stem largely from leadership and participation in basic and clinical research, service to national organizations and boards that establish standards in clinical practice and educational testing, and speaking engagements at local, national, and international conferences. Affiliations with TUSM, TUSDM, the Friedman School of Nutrition Science and Policy, and the Sackler School of Graduate Biomedical Sciences at Tufts University are the focus of most of our local education initiatives. The nephrology textbook *Primer on Kidney Diseases* is edited in the Division.

**2018 Education Initiatives**

- Dr. Taimur Dad was appointed Associate Fellowship Director for the Nephrology Fellowship program.
- *Kidney Medicine*, a new open access journal published by the National Kidney Foundation launched! This online journal follows the precedent of the *American Journal of Kidney Diseases* in focusing on clinical research and clinical practice in nephrology, with particular emphasis on studies of patient reported outcomes. Dr. Daniel Weiner is the inaugural editor-in-chief. Joining Dr. Weiner on the editorial team are Drs. David Drew and Craig Gordon, along with Hocine Tighiouart and former *AJKD* Associate Managing Editor Elizabeth Frank as the Managing Editor.
Visiting Professors, Faculty and Guests
Table 11 lists the 9 visiting professors or visiting faculty in the Division this year.

Table 11: 2018 Visiting Professors and Visiting Faculty

<table>
<thead>
<tr>
<th>Visiting Professor/Faculty</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katherine R. Tuttle, MD, FASN, FACP</td>
<td>Research Conference</td>
</tr>
<tr>
<td>Executive Director of Providence Medical Research Center,</td>
<td>Grand Rounds—Diabetic Kidney Disease New Targets for Treatment</td>
</tr>
<tr>
<td>Providence Sacred Heart Medical Center</td>
<td></td>
</tr>
<tr>
<td>Clinical Professor of Medicine, Nephrology Division University of Washington School of Medicine</td>
<td></td>
</tr>
<tr>
<td>Jan H. Beumer, PharmD, PhD, DABT</td>
<td>Carboblatin and the Relationship of Kidney Function and Disease to Pharmacokinetics and Outcomes</td>
</tr>
<tr>
<td>Associate Professor</td>
<td></td>
</tr>
<tr>
<td>Department of Pharmaceutical Sciences</td>
<td></td>
</tr>
<tr>
<td>University of Pittsburgh</td>
<td></td>
</tr>
<tr>
<td>John F. Gennari, MD</td>
<td>Acid Generation During Hemodialysis Treatment</td>
</tr>
<tr>
<td>Chief of Nephrology, Emeritus</td>
<td></td>
</tr>
<tr>
<td>University of Vermont</td>
<td></td>
</tr>
<tr>
<td>Robert Cohen, MD</td>
<td>Advanced Kidney Disease: Prognosis and Treatment</td>
</tr>
<tr>
<td>Nephrologist, Beth Israel Deaconess Medical Center</td>
<td>Decision Conversations in the Vulnerable Patient</td>
</tr>
<tr>
<td>Assistant Professor of Medicine</td>
<td></td>
</tr>
<tr>
<td>Harvard Medical School</td>
<td></td>
</tr>
<tr>
<td>Amaka D. Eneanya, MD, MPH</td>
<td>Comprehensive Care for Seriously Ill Patients with Kidney Disease: Where Are We Going?</td>
</tr>
<tr>
<td>Assistant Professor of Medicine</td>
<td></td>
</tr>
<tr>
<td>The Hospital of The University Of Pennsylvania</td>
<td></td>
</tr>
<tr>
<td>Philip Kam-Tao Li</td>
<td>Fluid Management in PD</td>
</tr>
<tr>
<td>Honorary Professor of Medicine</td>
<td></td>
</tr>
<tr>
<td>Chief of Nephrology and Consultant</td>
<td></td>
</tr>
<tr>
<td>Director, CUHK Carol &amp; Richard Yu PD Research Centre</td>
<td></td>
</tr>
<tr>
<td>Department of Medicine and Therapeutics</td>
<td></td>
</tr>
<tr>
<td>Prince of Wales Hospital</td>
<td></td>
</tr>
<tr>
<td>Chinese University of Hong Kong</td>
<td></td>
</tr>
<tr>
<td>Sarah J. Schrauben MD, MSCE</td>
<td>Chronic Kidney Disease: Health Behaviors, Bundles, and Beyond</td>
</tr>
<tr>
<td>Post-Doctoral Nephrology and Epidemiology Research Fellow</td>
<td></td>
</tr>
<tr>
<td>Division of Renal, Electrolyte, and Hypertension</td>
<td></td>
</tr>
<tr>
<td>Sanaz Sedaghat, MSc</td>
<td>Kidney Function and Brain Vascular Health</td>
</tr>
<tr>
<td>Post-doctoral Fellow</td>
<td></td>
</tr>
<tr>
<td>Department of Preventive Medicine</td>
<td></td>
</tr>
<tr>
<td>Feinberg School of Medicine</td>
<td></td>
</tr>
<tr>
<td>Northwestern University</td>
<td></td>
</tr>
<tr>
<td>Ali Poyan Mehr, MD</td>
<td>Prevention of AKI through NAD+ Augmentation</td>
</tr>
<tr>
<td>Instructor in Medicine</td>
<td></td>
</tr>
<tr>
<td>Beth Israel Deaconess Medical Center</td>
<td></td>
</tr>
</tbody>
</table>

- Dr. Smolentzov, a 2nd year fellow from Sao Paulo, Brazil visited the Division in September. He shadowed fellows, attended Consult Rounds and participated in Division educational activities.
## Continuing Education Initiatives

Table 12: Longstanding Graduate-level Teaching Initiatives

<table>
<thead>
<tr>
<th>School</th>
<th>Course</th>
<th>Personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUSM</td>
<td>Renal Pathophysiology Course</td>
<td>Dr. Gilbert, Course Director Division Attendants and Fellows</td>
</tr>
<tr>
<td></td>
<td>Physical Diagnosis Course</td>
<td>Nephrology fellows and several members of the physician staff</td>
</tr>
<tr>
<td></td>
<td>Renal Ward Service</td>
<td>Division Attendings</td>
</tr>
<tr>
<td></td>
<td>3-part clinical nephrology series for Internal Medicine Clerkship</td>
<td>Dr. Gilbert</td>
</tr>
<tr>
<td></td>
<td>Consultative Nephrology</td>
<td>Dr. Gilbert, Course Director</td>
</tr>
<tr>
<td></td>
<td>Medical Education elective</td>
<td>Dr. Gilbert</td>
</tr>
<tr>
<td></td>
<td>Cell and Molecular Pharmacology</td>
<td>Dr. Gilbert, Nephrology Section Leader</td>
</tr>
<tr>
<td></td>
<td>Selective Program Mentor</td>
<td>Dr. Weiner</td>
</tr>
<tr>
<td></td>
<td>Lecture in Pathobiology</td>
<td>Dr. Perrone</td>
</tr>
<tr>
<td>Tufts University School of Dental Medicine</td>
<td>Lectures on topics related to hypertension and nephrology</td>
<td>Drs. Gilbert and Wright</td>
</tr>
<tr>
<td>Friedman School of Nutrition Science and Policy</td>
<td>Lectures on kidney disease, hypertension and nephrology</td>
<td>Drs. Meyer and Weiner</td>
</tr>
<tr>
<td>Sackler School</td>
<td>Nutritional Biochemistry and Physiology</td>
<td>Dr. Gilbert, Nephrology Section Leader</td>
</tr>
<tr>
<td>The Francis Stern Nutrition Center at Tufts Medical Center</td>
<td>Renal Pharmacology</td>
<td>Dr. Gilbert</td>
</tr>
<tr>
<td></td>
<td>4-week experiential rotation in DCI Boston dialysis unit</td>
<td>Poonhar Poon, RD</td>
</tr>
</tbody>
</table>

Table 13: Longstanding Postgraduate-level Teaching Initiatives by Division Members

<table>
<thead>
<tr>
<th>Institution</th>
<th>Role</th>
<th>Personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sackler School of Graduate Biomedical Sciences at Tufts University</td>
<td>Mentor fellows during their independent research and thesis preparation in pursuit of a Masters of Science degree</td>
<td>Drs. Inker, Lacson, Levey, Meyer, Miskulin, Perrone, Richardson, Sarnak and Weiner</td>
</tr>
<tr>
<td>TUSM Department of Pharmacology and Experimental Therapeutics</td>
<td>Coordinate the Nephrology Section of the Advanced Molecular and Cellular Pharmacology Course</td>
<td>Dr. Gilbert</td>
</tr>
<tr>
<td>Tufts Medical Center</td>
<td>Renal Ward Service Nephrology Consultation Service Intern and Resident Teaching</td>
<td>Division Attendants</td>
</tr>
<tr>
<td></td>
<td>KBPC senior medical residents</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Morning Report and Noon Conference</td>
<td></td>
</tr>
</tbody>
</table>
Fellowship Programs

Clinical Fellowship Training
Dr. Gilbert is the Director of the highly-respected clinical fellowship training program. A well-organized curriculum emphasizes breadth and depth of clinical experiences with rotations at Tufts Medical Center and SEMC.

Over the past 15 years, approximately 44% of the 52 graduates of the fellowship program have continued in full-time academic positions. Another 12% have become private practitioners with substantial teaching responsibilities, many in hospitals with university affiliations. The remaining graduates are largely engaged in private practice.

During the past academic year, 98 applications to the clinical fellowship program were reviewed for 2 open positions available in 2019. Table 14 and Table 15 list graduating and current clinical fellows.

Table 14: Graduated Clinical Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anshul Bhalla, MD</td>
<td>2016-2018</td>
<td>Transplant Fellow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Johns Hopkins Medical Center</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Baltimore MD</td>
</tr>
<tr>
<td>Patricia Nasr, MD</td>
<td>2016-2018</td>
<td>Hospitalist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>St. Francis Hospital</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hartford CT</td>
</tr>
<tr>
<td>Matthias Wacker, MD</td>
<td>2016-2018</td>
<td>Nephrologist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Germany</td>
</tr>
</tbody>
</table>
Table 15: Current Clinical Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Previous Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jahangir Ahmed, MD</td>
<td>2018-2020</td>
<td>Brooklyn Hospital Center Brooklyn NY</td>
</tr>
<tr>
<td>Siloe Alvarado, MD</td>
<td>2017-2019</td>
<td>Baystate Medical Center Springfield MA</td>
</tr>
<tr>
<td>Yashodhan Chivate, MD</td>
<td>2018-2020</td>
<td>Mather Hospital Port Jefferson NY</td>
</tr>
<tr>
<td>Rajiv Sinanan, MD</td>
<td>2018-2020</td>
<td>University of Miami Miami FL</td>
</tr>
</tbody>
</table>

**Continuing Research Fellowship Training Initiatives**

**Research Fellowship Training**

The Division offers training in clinical research under the direction of Drs. Sarnak (Training Program Director) and Weiner (Director of Research) at Tufts Medical Center and Drs. Jaber and Madias at SEMC. Many faculty members participate in the Research Fellowship Training program.

![Taimur Dad, MD, Research Fellow
ASN Poster Presentation](image)

**Clinical Investigator Track: NIDDK Training Grant**

The NIDDK Institutional Research Training Award in "Epidemiology, Clinical Trials and Outcomes Research in Nephrology funds three trainees per year in the Clinical Investigator Track. This program is designed for fellows aspiring to a career as an independent investigator in clinical research in nephrology. The program has been focused primarily on chronic kidney disease, although in recent years, there is a growing interest in acute kidney injury. The specific aims of the Training Program are:

1. **Didactic Training** - course work in fulfillment of the MS degree in the Graduate Program in Clinical Research at the Sackler School of Graduate Biomedical Sciences at Tufts University;

1. **Independent Study** - a hypothesis-based research project supervised by a nephrologist mentor and a research team of faculty with expertise in other disciplines;
3. **Training in Presentation** - participation in conferences and seminars designed to improve trainees' oral and written presentations.

Nephrologist mentors ensure integration of all aspects of the curriculum with trainees’ research projects.

**Research Fellowship Program Statistics**

We have 2 current research fellows in training. We received 38 applications in 2018 for 1 open research fellowship position in 2019. See Tables 16 and 17 for listings of graduated and current research fellows.

Table **16**: Graduated Research Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taimur Dad, MD, MS</td>
<td>2016-2018</td>
<td>Nephrology Faculty</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tufts Medical Center</td>
</tr>
<tr>
<td>Dominik Steubl, MD</td>
<td>2017-2018</td>
<td>Division of Nephrology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Klinikum Rechts der Isar Technische Universität München, Germany</td>
</tr>
</tbody>
</table>

Table **17**: Current Research Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Prior Institution</th>
<th>Nephrology Mentor</th>
<th>Funding Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wendy McCallum, MD</td>
<td>Tufts Medical Center Boston MA</td>
<td>Mark J. Sarnak, MD, MS</td>
<td>NIH T32</td>
</tr>
<tr>
<td>Bethany Roehm, MD</td>
<td>Tufts Medical Center Boston MA</td>
<td>Lesley A. Inker, MD, MS</td>
<td>NIH T32</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Andrew S. Levey, MD</td>
<td></td>
</tr>
</tbody>
</table>

**Continuing Medical Education**

**2018 Medical Education Initiatives**

Table 19 lists the continuing education presentations given by Division faculty in 2018. The table excludes presentations given within the Division, as all faculty are expected to present one Journal Club and one Research Conference annually.

Table **19**: 2018 Local, National, and International Presentations by Division Faculty

**LOCAL/REGIONAL PRESENTATIONS**

- **Dr. Gilbert**
  - The Epidemic of Kidney Disease
  - 6th Annual William Gelfand Memorial Lecture
  - Phi Delta Epsilon International Medical Fraternity at UMass-Boston Boston MA

- **Dr. Gordon**
  - Thrombotic Microangiopathy (TMA) and Development of a Multidisciplinary TMA Team
  - Massachusetts General Hospital Renal Grand Rounds Boston MA

- **Dr. Inker**
  - A Roadmap for Chronic Kidney Disease: Where Have We Been, Where Are We Now, and Where Do We Need to Go?
  - Milton Hospital Milton MA
Dr. Jaber
Update on Prevention of Contrast-Induced Acute Kidney Injury
St. Elizabeth’s Medical Center Medical Grand Rounds
Boston MA

Update on Prevention of Contrast-Induced Acute Kidney Injury
Carney Hospital Medical Grand Rounds
Boston MA

Dr. Levey
GFR and Albuminuria – Measures of Kidney Disease and Markers for Risk and Prediction of Heart and Vascular Disease
Brigham and Women’s Hospital Cardiovascular Grand Rounds (Dunham Lecturer Visiting Professor)
Boston MA

Update in GFR Estimation
Brigham and Women’s Hospital Renal Grand Rounds
Boston MA

Update in GFR Estimation
Beth Israel Hospital Renal Grand Rounds
Boston MA

Dr. Perrone
Pathobiology of ADPKD
Harvard Medical School Student Seminar
Boston MA

JYNARQUE™ (Tolvaptan): The First FDA-Approved Treatment for ADPKD
PKD Foundation Boston Chapter
Boston MA

JYNARQUE™ (Tolvaptan): The First FDA-Approved Treatment for ADPKD
The Harvard PKD Center Annual Conference
Brigham and Women’s Hospital
Boston MA

JYNARQUE™ (Tolvaptan): The First FDA-Approved Treatment for ADPKD
Lahey Clinic Renal Division Research Seminar
Burlington MA

Treatment of Polycystic Kidney Disease
Saint Vincent Hospital Renal Rounds
Worcester MA

Dr. Sarnak
Beyond the Glomerulus: Novel Clinical Markers of Kidney Health and Prognosis.
Maine Medical Center Research Rounds
Portland ME

Renocardiac or Cardio-Renal Syndrome: A Nephrologists Perspective
Boston Medical Center Cardiology Grand Rounds
Boston MA

Dr. Weiner
Fluid Management in Dialysis: Outcomes, Incentives and Obstacles
Council on Renal Nutrition, New England Spring Conference
Lowell MA

Fluid Management in Dialysis: Outcomes, Incentives and Obstacles
Henry Ford Health System Renal Grand Rounds
Detroit MI
The Past, Present and Future of Kidney Care in the US
University of Pennsylvania Renal Grand Rounds
Philadelphia PA

NATIONAL PRESENTATIONS

Dr. Gilbert
ASN Workforce and Training Joint TPD-Division Chiefs Meeting
2018 ASN Kidney Week
San Diego CA

Dr. Gordon
Evaluation and Prevention of HCV Infection in the CKD Setting
National Kidney Foundation 2018 Spring Clinical Meeting
Austin TX

Dr. Goyal
Moderator—Translational and Transplant Pathology
2018 ASN Kidney Week
San Diego CA

Dr. Lacson
Evaluating Patient Losses at DCI Home Dialysis Programs
DCI Spring Medical Directors’ Meeting
Savannah GA

2018 Infection Control and Prevention Program at DCI
DCI National Medical Directors’ Meeting
Tampa FL

Dr. Levey
Chronic Kidney Disease: Update on the Definition, Classification and Prognosis
UCSD Medicine Grand Rounds (Visiting Professor)
San Diego CA

Update in GFR Estimation
Renal Grand Rounds (Mendes Lecture Visiting Professor)
San Diego CA

Dr. Perrone
JYNARQUE™ (Tolvaptan): The First FDA-Approved Treatment for ADPKD
PKD Foundation Live National Webinar
Kansas City MO

JYNARQUE™ (Tolvaptan): The First FDA-Approved Treatment for ADPKD
Polycystic Kidney Disease Outcomes Consortium
Critical Path Institute
Tucson AZ

Update on Tolvaptan: The First Treatment for ADPKD in the US
PKD Connect, PKD Foundation National Conference
Kansas City MO

Best Practices in Treating PKD
PKD Connect, PKD Foundation National Conference
Kansas City MO

FDA Biomarker Qualification and MRI Imaging Parameters Qualified by FDA (PKDOC Measures)
NIDDK Renal Imaging Workshop
Bethesda MD

Emerging Therapies and Promising Clinical Trials in Early Course PKD: Translating Mechanisms into Therapy
2018 ASN Kidney Week
San Diego CA
Dr. Richardson  Patient-reported Outcomes in Kidney Disease: An Overview  National Kidney Foundation 2018 Spring Clinical Meeting  Austin TX

What To Do With Patient-reported Outcomes?  Renal Physicians Association 2018 Annual Meeting  Orlando FL

Dr. Sarnak  HFpEF and HFrEF: It’s All the Same to the Kidneys (Or Is It?)  American College of Cardiology Annual Meeting  Orlando FL

Update in Nephrology and Hypertension  American College of Physicians Annual Meeting  New Orleans LA

Cognitive Function and Vascular Disease in Dialysis Patients  Yale O’Brien/Renal Symposium  New Haven CT

Management of Congestive Heart Failure in Dialysis Patients  2018 ASN Kidney Week  San Diego CA

Dr. Weiner  Building an Ideal Quality Metric for ESRD Healthcare Delivery  2018 ASN Kidney Week  San Diego CA

Management of Gout in CKD  National Kidney Foundation 2018 Spring Clinical Meeting  Boston MA

KDOQI Commentary: Serum Phosphate and Calcium Targets  National Kidney Foundation 2018 Spring Clinical Meeting  Boston MA

INTERNATIONAL PRESENTATIONS

Dr. Gordon  Diagnosing aHUS in the Presence of Complement-amplifying Conditions: A Multidisciplinary Team Approach  Japanese Society for Clinical Renal Transplantation 51st Annual Meeting  Kobe Japan

Challenging Cases in TMA – A Case Discussion  Japanese Society for Clinical Renal Transplantation 51st Annual Meeting  Kobe Japan

What is a TMA team? An Algorithmic Approach to the Diagnosis of TMA  TMA Masters Forum  Tokyo Japan

Difficult TMA Cases – An International Discussion Panel  TMA Masters Forum  Tokyo Japan

Dr. Jaber  Update on Prevention of Contrast-Induced Acute Kidney Injury  11th Annual Congress of the Lebanese Society of Critical Care Medicine  Beirut Lebanon
Update on Continuous Renal Replacement Therapies in the ICU
11th Annual Congress of the Lebanese Society of Critical Care Medicine
Beirut Lebanon

Dr. Lacson
Magnesium & Maintenance HD: DyMO Study Rationale & Design
Gardener’s Grove: Stakeholders Conference on Cluster Randomized Trials
Toronto Canada

Dr. Madias
Invited Lecturer
20th Hellenic Congress of Nephrology
Athens Greece

Dr. Perrone
Long-term treatment of PQRAD (ADPKD) with Tolvaptan
XLVIII Congress of the Spanish Society of Nephrology/IX Iberoamerican Congress of Nephrology
Madrid Spain

Management of ADPKD in 2018
2018 Toronto PKD Scientific Conference
Toronto Canada

Advances in the Management of ADPKD
Charité – Universitätsmedizin
Berlin Germany

Optimal Management of ADPKD in Patients Prior to Dialysis
31st Berliner DialyseSeminar
Berlin Germany

Dr. Sarnak
KDIGO Controversy Conference on Coronary Artery & Valvular Disease
ISN KDIGO Webinar

Editorial Board Appointments

- Dr. Drew is the Nephrology Topic Editor for Clinical Therapeutics.
- Dr. Lacson is on the editorial board of the American Journal of Kidney Diseases.
- Dr. Madias serves on number editorial boards: Kidney: A current survey of world literature; International Angiology: Arterial Hypertension; Indian Journal of Nephrology; Hellenic Medical Journal; Hippokratia; Hellenic Medicine; Acid-Base and Electrolyte Advisory Board, American Journal of Kidney Diseases; and Kidney International Reports.
- Dr. Weiner is the editor of the Policy Feature of the American Journal of Kidney Diseases.

2018 Education Awards and Honors

- In April, Dr. Gilbert received the 2018 Grant V. Rodkey, MD Award for Outstanding Contributions to Medical Education from the Massachusetts Medical Society. This annual award is presented to a physician who has demonstrated outstanding commitment to the education and welfare of medical students and who has made significant contributions to medical students, both in the hospital and in organized medicine. We all know how highly the students think of Scott. It is a great honor that others outside the institution and TUSM see this too!
The TUSM Seniors once again awarded several Division members with teaching awards. Dr. Seth Wright received the Outstanding Teaching in the Clerkship Years Award which is one of the highest teaching honors a clinician-educator can receive at TUSM; Dr. Scott Gilbert received the Excellence in Teaching Award his 14th time receiving this honor demonstrating his outstanding teaching ability and longstanding dedication to student medical education; and Dr. Anshul Bhalla, second year clinical fellow, received the Excellence in Teaching Award to Housestaff/Fellows!

Dr. Gilbert was installed on the Alliance for Academic Internal Medicine’s (AAIM) Association of Subspecialty Professors Council. The AAIM is a consortium of five academically focused specialty organizations (Association of Professors of Medicine, the Association of Program Directors in Internal Medicine, the Association of Subspecialty Professors, the Clerkship Directors in Internal Medicine, and the Administrators of Internal Medicine) representing departments of internal medicine at medical schools and teaching hospitals in the United States and Canada. Through these organizations, AAIM represents department chairs and chiefs; clerkship, residency, and fellowship program directors; division chiefs; and academic and business administrators as well as other faculty and staff in departments of internal medicine and their divisions.

In 2018, Dr. Madias received Honorary Recognition for his long-term contribution to the education and training of Greek nephrologists.

Dr. Gilbert gave the invited 6th Annual William Gelfand Memorial Lecture to the members of the Phi Delta Epsilon International Medical Fraternity at UMass Boston.
Public Policy
2018 Public Policy Initiatives Accomplishments

- In March, the National Kidney Foundation (NKF), along with the Food and Drug Administration (FDA) and the European Medicines Agency (EMA) concluded a scientific workshop *Change in Albuminuria and GFR as End Points for Clinical Trials in Early Stages of Chronic Kidney Disease* which was a collaboration to review the results of a major, multi-year meta-analysis examining the largest compilation of data ever collected on chronic kidney disease (CKD). The workshop was led by Dr. Levey. Dr. Inker chaired a working group. The groups gathered reviewed the data supporting the use of earlier markers of kidney disease progression as endpoints in clinical trials for early stages of CKD. These clinical trials may lead to treatments that will improve the lives of people with kidney disease. The extensive meta-analysis included data on nearly two million participants. Results of the analysis and recommendations on whether surrogate biomarkers—albuminuria, changes in the rate/slope of GFR decline, and GFR and albuminuria in combination—can be used as predictors of a treatment’s effect on progression to kidney failure in clinical trials in early stages of CKD.

- The ASN’s ongoing efforts to develop a Comprehensive Kidney Care (CKC) Model received a boost after Senator Bill Cassidy, MD (R-LA), met with Crystal A. Gadegbeku, MD, FASN, and Daniel E. Weiner, MD, FASN, co-chairs of a joint working group leading development of the model. During the meeting, Dr. Cassidy discussed the challenges facing development of a CKC model with Dr. Gadegbeku and Dr. Weiner and offered his feedback on several concepts, as well as his support in the submission process.

- Dr. Weiner chaired the ESRD Physician Level Measure Development Technical Expert Panel.

**Continuing Public Policy Initiatives**

**ASN Public Policy Board**

In 2017 and 2018, Dr. Weiner served as the chair of the American Society of Nephrology’s Quality
Committee and as a member of the Policy Committee. As of 2019, he became a member of both committees and represents ASN at Kidney Care Partners, a national organization spanning the kidney community. In these roles, he works closely with the ASN executive council and the current committee chairs to advance potential care models to benefit kidney disease patients and to promote high-level kidney care by interfacing with CMS and other stakeholders on regulatory processes, like MACRA implementation in the Quality Payment Program, the ESRD Quality Incentive Program (QIP) and Prospective Payment System (PPS), other quality metrics programs, and the Physician Fee Schedule.

**ASN Workforce and Training Committee and ASN Executive Committee**

Dr. Gilbert is Chair of the ASN Workforce and Training Committee and a member of the ASN Executive Committee. The Workforce and Training Committee is charged with developing, implementing, evaluating, and continuously improving initiatives for students, residents, fellows, and other trainees. It defines training requirements for nephrologists, promotes improvements to training programs, and cultivates interest in kidney medicine, research, and education. The Executive Committee reports directly to ASN Council on the goals and mission of the organization. Dr. Gilbert’s appointment is for 5 years.

**Chronic Kidney Disease in Nicaragua**

Dr. Weiner is collaborating with public health researchers from Boston University School of Public Health to investigate chronic kidney disease among workers in rural Nicaragua. The objective of this research is to explore the reported high prevalence of kidney disease among working age residents in rural northwest Nicaragua to better define prevalence and to develop hypotheses regarding cause.

**DCI Information Systems**

Dr. Meyer serves as Medical Director for Information Systems for Dialysis Clinic, Inc., chairs its Medical Director Computer Steering Committee, and serves on its Medical Director Home Dialysis Committee. Dr. Meyer is one of the principal architects of DCI’s information system, which sets an industry standard for quality of care and of information, and continues to participate in its development.

**DCI Outcomes Monitoring Program**

Dr. Richardson directs the corporate-wide DCI Outcomes Monitoring Program. The program oversees patient-reported outcomes using surveys to improve care. Health-related quality of life is assessed using the SF-36+24 or the KDQOL-36 questionnaire. Dr. Richardson and her staff work with DCI Corporate and clinic-level staff to incorporate the results of the health-related quality of life surveys into patient care and quality improvement initiatives.

**National Kidney Disease Education Program**

Dr. Inker is a member of the National Kidney Disease Education Program (NKDEP) of the NIDDK. Dr. Levey has participated in the efforts of the NKDEP to recommend reporting GFR estimates by clinical laboratories and to standardize serum creatinine assays for more accurate GFR estimation.
Philanthropic Support of the Division
Continuing Philanthropic Initiatives

Driscoll Family Endowed Fund in Nephrology

The Driscoll Family Endowed Fund in Nephrology was established in 2017. The Endowed Fund supports the Driscoll Family Fund in Nephrology.

We are grateful for the Founding Gifts to the Driscoll Family Endowed Fund in Nephrology:

- Mr. Robert and Mrs. Dolores Driscoll (Fund Founders)
- Mr. Chris and Mrs. Christie Blier (Fund Founders)

2018 Driscoll Family Endowed Fund in Nephrology Updates

We are grateful for the following donations to the Driscoll Family Endowed Fund in Nephrology in 2018:

- Mr. Robert and Mrs. Dolores Driscoll
- Mr. Chris and Mrs. Christie Blier

Driscoll Family Fund in Nephrology

The Driscoll Family Fund in Nephrology was created in 2014 through the generosity of Mrs. Dolores Driscoll and is under the direction of Dr. Sarnak. The purpose of The Driscoll Family Fund in Nephrology is to specifically fund research in the area of kidney disease.

We are extremely honored by the following Founding Gift to The Driscoll Family Fund in Nephrology:

- Mr. Robert and Mrs. Dolores Driscoll (Fund Founders)

2018 Driscoll Family Fund in Nephrology Updates

- Dr. Dominik Steubl’s project entitled Association of Serum Uromodulin with Residual Kidney Function and Survival in Chinese Peritoneal Dialysis Patients was supported by the Driscoll Family Fund in Nephrology.

Inker Family Fund

The Inker Family Fund was created in 2010 through the generosity of Lesley Inker, MD and Ben Inker, in honor of their wedding on January 16, 2011. The Inker Family Fund is under the direction of Dr. Sarnak, with an initial goal to provide emergency medically necessary support to patients with kidney disease for which there are no other sources of support. A committee comprised of clinicians, nurses and social workers has the discretion to meet patient’s needs based on the Inker Family Fund criteria.

We are extremely honored by the following Founding Gifts to the Inker Family Fund:

**Individual Donors**

- Dr. Lesley Inker & Mr. Benjamin L. Inker (Fund Founders)
- Mr. and Mrs. Lawrence J. Beaser
Mr. and Mrs. Ray A. Beaser
Mr. and Mrs. Murray Blankstein
Dr. and Mrs. Barry Borden
Dr. Ilana Braun and Mr. Jed Wise
Ms. Rhoda Brown
Mr. and Mrs. Adam Cohen
Mr. and Mrs. Jerry Cohen
Mr. and Mrs. Robert Cohen
Dr. Josef Coresh and Dr. Michelle J. Hindin
Mr. and Mrs. Domenic Esposito
Mr. Morley Faber and Dr. Adeera Levin
Dr. and Mrs. Irv Feferman
Ms. Elizabeth J. Fitzgerald
Dr. Don Gaddy
Dr. Lisa Gilbert and Dr. Scott Gilbert
Mr. and Mrs. Stephen Goldman
Mr. and Mrs. Ronnie Goldstein
Mr. and Mrs. Campe Goodman
Mr. and Mrs. Robert J. Grantham
Dr. and Mrs. Bernard Grodzinski
Ms. Mimi Hollenberg
Mr. David C. Jacobson and Ms. Rochelle K. Greene
Mr. and Mrs. Matthew J. Kadnar
Mr and Mrs William Kassell
Mr. and Mrs. Josef Kastner
Ms. Ruth L. Kastner
Dr. Jessica Kirshner and Mr. Dan Sommers
Mr. and Mrs. Raymond Koskie
Ms. Diane A. Lapon
Mr. Ivan Lehon and Ms. Tal Kastner
Dr. Andrew S. Levey and Dr. Roberta Falke
Dr. Julie Maggi
Dr. and Mrs. Herb Marcus
Mr. Ken Miller and Dr. Debra Miller
Ms. Alexandra C. Moller
Mr. and Mrs. Michael Offner
Ms. Alison Osattin
Mr. and Mrs. Kirk A. Ott
Ms. Ronna J. Perlmutter
Dr. and Mrs. Alan D. Persky
Mr. and Mrs. M. Laurence Popofsky
Mr. and Mrs. Morton Prager
Mrs. Nancy Prussky and Mr. Ronald Steinberg
Mr. and Mrs. Michael Rabieh
Dr. and Mrs. Anthoney Rebuck
Ms. Guinnevere Roberts and Mr. Timothy D. Male
Mr. and Mrs. James Sallinger
Ms. Maxine Savitz
Ms. Kerri Scharr and Dr. Daniel Weiner
Mr. Roger A. Seltzer
Mr. Jamie Shields and Ms. Shawna Colvin
Mr. and Mrs. Murray A. Silver
Mr. and Mrs. Hy Spector
Ms. Ann M. Spruill
Dr. and Mrs. Howard Stevens
Dr. Ali Taradash and Mr. Jeremy Dacks
Dr. Joshua Tepper
Dr. and Mrs. George Theodosiou
Dr. Kathryn Tinckam and Mr. Takashi Yamahito
Ms. Donna Valikoff
Mr. and Mrs. George Weinberger
Dr. and Mrs. Kenneth Wener
Rabbi Eric and Amy Yoffie
Dr. and Mrs. Harvey Zimmerman

Corporate/Institutional Donors
- Grantham, Mayo, Van Otterloo & Co., LLC (Matching gift)
- The Ira Gluskin & Maxine Granovsky Gluskin Charitable Foundation

2018 Inker Family Fund Updates

We are grateful for the many donations to the Inker Family Fund in 2018:

- Mr. Craig P. Baskin
- Ms. Mary E. Gilbert
- Ms. Marie C. Giordano
- Ms. Jodi Harmon
- Island Foundation
- Mr. Jeremy Lapon
- Dr. Ronald Perrone
- Mr. and Mrs. John N. Previti
- The Sarnak Family
- Ms. Elizabeth Wenger
- Dr. Daniel Weiner and Ms. Kerri Scharr

Dr. Gerald J. and Dorothy R. Friedman Professorship in Medicine at Tufts University School of Medicine

The Dr. Gerald J. and Dorothy R. Friedman Professorship in Medicine at Tufts University School of Medicine was established in 2000 with Dr. Andrew S. Levey as its first recipient. The fund is used to support the operations for clinical care, research, and education in nephrology within the Division.

Gerald J. Friedman, MD was an internist known as a superb diagnostician, as well as a specialist in diabetes, cardiac disease, endocrinology, and nutrition.
A lifelong New Yorker, Dr. Friedman earned his bachelor’s and medical degrees from New York University College, returning to teach there for most of his career. After serving as commanding officer at the 222nd Station Hospital in World War II, he joined the staff of Beth Israel Medical Center in New York, where he remained for the rest of his career, serving on almost every significant committee and as President of the Medical Board.

Dr. Friedman always maintained an active practice and a reputation for thorough physical examinations in the city. For more than 30 years beginning in 1957, he was also international medical director for the United Parcel Service, and an active member of the Industrial Medical Association.

He wrote extensively on the management of diabetes, especially in the workplace, at a time when many employers discriminated against people with diabetes. He also helped the New York Diabetes Association establish a summer camp in upstate New York for children with diabetes.

While playing saxophone during his days as a medical intern, Dr. Friedman met and married Dorothy Ross, a Boston-born jazz pianist and recording artist. While Mrs. Friedman stopped performing professionally after her husband finished his residency, her private playing always entertained the Ross and Friedman families and friends.

Dr. Friedman died on November 25, 2004 at the age of 91. He was survived by his wife Dorothy and his niece, Jane Friedman.

**William B. Schwartz Nephrology Fund**

Bill Schwartz founded the Division of Nephrology at Tufts Medical Center in 1950 and served as its chief until 1971. He developed the Division into a preeminent referral center for patients with kidney diseases in the New England region and beyond, and he cared personally for hundreds of patients. He made landmark discoveries that revolutionized our understanding of the pathophysiology and management of acid-base and electrolyte disorders. But most importantly, he created a school of rigorous pathophysiological thought and analytical reasoning, whose graduates have contributed greatly to the field of nephrology.

We have endeavored to preserve Dr. Schwartz’s academic legacy by establishing the **William B. Schwartz Nephrology Fund**. The fund was created in 2000 by charitable gifts to Tufts Medical Center on the 50th anniversary celebration of the founding of the Division and reunion of faculty and trainees. The Fund supports a number of academic initiatives of the Division, including research and training opportunities for both junior and senior investigators within the Division.

We are extremely honored by the following Founding Gifts to the **William B. Schwartz Nephrology Fund**:

**Individual Donors**

- Mr. and Mrs. John P. Brogan
- Dr. John Harrington
- Dr. Jerome and Sheridan Kassirer
• Dr. Andrew Levey and Dr. Roberta Falke
• Dr. David and Lynn Lowance
• Drs. Nicolaos and Ourania Madias
• Dr. Dwight and Rhonda Makoff
• Dr. Mark and Judy Needle
• Dr. Brian and Dr. Sunita Pereira
• Dr. Jill Speigel

Corporate/Institutional Donors

• AMGEN, Inc.
• Dialysis Clinic, Inc. Boston
• Genzyme
• Merck & Co.
• Ortho BioTech

2018 William B. Schwartz Fund Updates

We appreciate receiving gifts to the William B. Schwartz Fund in 2018 from the following:

• Anonymous
• Dr. and Mrs. Howard B. Garfinkel

Dr. John T. Harrington Endowed Fund

The Dr. John T. Harrington Endowed Fund was created in 2006. It was established by charitable gifts to Tufts Medical Center in honor of Dr. Harrington’s 70th birthday. Through his outstanding career, Dr. Harrington, Dean Emeritus at TUSM, played a vital role in Tufts Medical Center’s Division of Nephrology. Widely known as a gifted nephrologist who brought long-term hope to seriously-ill patients, his contributions to the field of Nephrology are many. In the early 1970s, Dr. Harrington developed the hemodialysis, peritoneal dialysis and kidney transplant programs. Another of his most notable contributions to medical education and nephrology was his leadership of the “Nephrology Forum” in Kidney International, the official journal of the International Society of Nephrology. The Forum served as an invaluable resource of information and perspective for nephrologists around the globe for over 25 years.

The Dr. John T. Harrington Endowed Fund supports a mission that Dr. Harrington held near and dear – the continuous medical education of physicians, both young and more senior, on the delivery of the highest-quality care possible to patients suffering from kidney disease. Each year, the Harrington Fund supports a Visiting Professor in the Division of Nephrology to participate in the evaluation of the Division’s research training program and to speak at Grand Rounds in the Department of Medicine. In addition, the Harrington Fund can support other educational programs and initiatives within the Division, include innovative research projects that require seed funding and special patient care projects.

We are very grateful for the following Founding Gifts for the Dr. John T. Harrington Endowed Fund:
Individual Donors
- Mr. Thomas F. and Mrs. Mary J. Shields
- Mr. and Mrs. John P. Brogan
- Drs. Nicolaos and Ourania Madias
- Dr. and Mrs. Howard B. Garfinkel
- Dr. and Mrs. James A. Strom

Corporate/Institutional Donors
- Dialysis Clinic, Inc.
- Tufts University School of Medicine
- Merck & Co., Inc

Visiting Professors:

1st Annual John T. Harrington Grand Rounds—2007
Nicolaos E. Madias, MD, Visiting Professor
St. Elizabeth’s Medical Center
Shared Primacy of Sodium and Potassium in the Pathogenesis of Hypertension

2nd Annual John T. Harrington Grand Rounds—2008
Sharon Moe, MD, Visiting Professor
University of Indiana
Chronic Kidney Disease: Looking for Bone in All the Wrong Places

3rd Annual John T. Harrington Grand Rounds—2009
Eberhard Ritz, MD, Visiting Professor
Department of Internal Medicine Ruperto Carola University of Heidelberg, Germany
The World Kidney Day: The Kidney and Hypertension

4th Annual John T. Harrington Grand Rounds—2010
Bertram Kasiske, MD, Visiting Professor
Professor of Medicine. Head of Transplant Nephrology at the University of Minnesota, Director of the Renal Division at Hennepin County Medical Center
Guidelines for the Management of Kidney Transplant Patients

5th Annual John T. Harrington Grand Rounds—2011
Jonathan Himmelfarb, MD, Visiting Professor
Professor of Medicine, Joseph W. Eschbach Endowed Chair for Kidney Research from the University of Washington Division of Nephrology, Seattle WA
Kidney Disease as a Public Health Problem: Problems, Progress, and Prospects

Adeera Levin, MD, Visiting Professor
Staff nephrologist at St. Paul’s Hospital
Professor at the University of British Columbia in Vancouver, British Columbia.
Global Burden of CKD: Challenges and Opportunities
7th Annual John T. Harrington Grand Rounds—2013  
Josef Coresh, MD, PhD, Visiting Professor  
G.W. Comstock Professor of Epidemiology, Biostatistics & Medicine  
Director, George W. Comstock Center for Public Health Research and Prevention and the  
Cardiovascular Epidemiology Training Program  
Johns Hopkins University Baltimore MD  
*Chronic Kidney Disease — A Challenge for All Ages*

8th Annual John T. Harrington Grand Rounds—2014  
Kai-Uwe Eckardt, MD, Visiting Professor  
Professor of Medicine and Head of the Department of Nephrology and Hypertension  
University of Erlangen-Nuremberg, Germany  
*Getting a Handle on CKD—an Observational Approach*

9th Annual John T. Harrington Grand Rounds—2015  
Joachim Ix, MD, MAS, FASN, Visiting Professor  
Chief of Nephrology and Professor of Medicine  
University of San Diego, California  
*Calcium and Phosphate in Chronic Kidney Disease: Insights into their Associations with Cardiovascular Disease*

John Gill, MD, MS, Visiting Professor  
Professor with Tenure  
Department of Medicine, Division of Nephrology  
Research Scientist Center for Health and Evaluation and Outcome Science University of British Columbia  
Vancouver, BC Canada  
*Living Kidney Donation*

11th Annual John T. Harrington Grand Rounds—2017  
Ebony Boulware, MD, MMPH, Visiting Professor  
Chief, Division of General Internal Medicine  
Director, Duke Clinical and Translational Science Award  
Vice Dean for Translational Sciences  
*In Search of a Magic Bullet: How Do We Get Patients the Treatments They Want?*

12th Annual John T. Harrington Grand Rounds—2018  
Katherine R. Tuttle, MD, FASN, FACP, Visiting Professor  
Executive Director of Providence Medical Research Center, Providence Sacred Heart Medical Center  
Clinical Professor of Medicine, Nephrology Division, University of Washington School of Medicine  
Spokane, Washington  
*Diabetic Kidney Disease—New Targets for Treatment.*
2018 Harrington Fund Updates

- Holly Kramer, MD, MPH, of Loyola University Medical Center is the visiting professor for the 13th Annual John T. Harrington Grand Rounds. Dr. Kramer is President of the National Kidney Foundation and Associate Professor of Public Health Sciences and Medicine in the Division of Nephrology and Hypertension at Loyola.

The Hortense “Diddy” Seybolt Fund for Staff Enrichment in Nephrology

The Hortense “Diddy” Seybolt Fund for Staff Enrichment in Nephrology was established in 2008 by the family and friends of Diddy Seybolt in recognition of her great appreciation for the compassionate care provided to her by technicians, nurses, and other medical care providers in conjunction with her dialysis treatments at Tufts Medical Center and DCI Boston. Mrs. Seybolt was a long-time benefactor of Tufts Medical Center and a former member of the Hospital's Board of Trustees.

The purpose of the Hortense “Diddy” Seybolt Fund for Staff Enrichment in Nephrology is to support professional development and training in nephrology with a special focus on staff that care for dialysis patients. Examples of professional development and training include participation in conferences, seminars, coursework and other continuing medical education opportunities that will advance the knowledge, skill, and careers of technicians, nurses, and other medical care providers who care for dialysis patients. To support these enrichment activities, it is expected that the Fund will distribute multiple awards every year in the range of $500—$1,500 each, depending on funding available. The awards will provide important recognition to the hardworking staff that cares for dialysis patients and awardees will be acknowledged as receiving support from the Hortense “Diddy” Seybolt Fund for Staff Enrichment in Nephrology.

Mrs. Seybolt’s determination, good humor, grace, and dignity inspired both her fellow dialysis patients and the physicians and staff who were privileged to care for her. Even as she confronted a rigorous treatment for an exhausting chronic illness, she was attentive to the experiences and aspirations of the staff who performed her hemodialysis treatments. The Division is profoundly grateful to her family and friends for memorializing Mrs. Seybolt’s concern and sense of community in this fund.

We are grateful for the following Founding Gifts received:

- The Friends and Family of Hortense “Diddy” Seybolt

2018 Seybolt Fund Updates

- In 2018, proceeds from the Diddy Seybolt Fund were used for a variety of educational purposes for dialysis clinic staff.

Friends of the Division and DCI

We also recognize extraordinary gifts to the Division and the DCI Boston dialysis clinic.

- In 1986, on the occasion of the opening of the DCI’s first dialysis clinic in Boston, Mr. and Mrs. John P. Brogan donated televisions for patients in the clinic.
Information to Make Gifts to the Division
The Division is always appreciative of new gifts. If you wish to make a contribution to the Friedman Fund or the Dean Emeritus John T. Harrington Endowed Scholarship please designate which you would like to support. You can make your contribution to Tufts University School of Medicine online at [https://www.alumniconnections.com/donate/tufts/](https://www.alumniconnections.com/donate/tufts/) or mail it to:

Tufts University School of Medicine  
Office of Development & Alumni Relations  
136 Harrison Avenue  
Boston, MA 02111

To support any of the other funds, please indicate the specific name of the fund to which you wish your gift to be directed. Contributions can be made to Tufts Medical Center online at [http://tuftsmedicalcenter.org/giving](http://tuftsmedicalcenter.org/giving) or mailed to:

Tufts Medical Center Development Office  
800 Washington Street  
Box 231  
Boston, MA 02111  
617-636-7656 (phone)  
617-636-7659 (fax)