We dedicate this year’s report to Dr. Andrew S. Levey, recipient of the American Society of Nephrology’s 2013 Belding H. Scribner Award
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Message from the Chief

Welcome to our 12th Annual Report. This year’s report summarizes our endeavors in the areas of administration, patient care, research, education and policy. 2013 was another good year for the Division – with many celebrations, and I am pleased to have shared them with so many of you. Beginning on page 4, we include pictures from the American Society of Nephrology Scribner Award presentation and celebration at this year’s meeting of the American Society of Nephrology in Atlanta in November and the surprise party hosted by Jane Friedman in Boston in December. Yes, without a doubt, I was completely surprised! Receiving the Scribner Award is certainly one of the high points in my career, and I am grateful to friends, colleagues and family for their years of support and hard work. As I said in Atlanta, “I believe that our work has truly changed clinical practice, research and public health in kidney disease, and the professional and personal relationships we have developed have enriched our lives.” Special thanks to Ron Perrone, Lesley Inker, Michelle Richardson, Lorna Davies and Geneva Tucker for flawless party arrangements.

We welcomed new members of the faculty, Meri Foster, an epidemiologist and Xun Liu a visiting scientist from Guangzhou, China, to join our research teams, and Seth Wright, a nephrologist to help with the inpatient service during his research training. Nicole Collado has replaced long-term fellowship coordinator Neva Parsons. And we have 4 babies to introduce on Page 3 - born to Dana Miskulin, Dave Drew, Alin John, and Kate Michener. Andrei Kouznetsov and Val Price left our Concord practice after many years of dedicated service. Their practice will be covered by Tony Dash, Gautham Viswanathan and Madhu Rao. We said a sad farewell to Katrin Uhlig, a member of our faculty since 2003, who had nurtured a thriving evidence review team within Tufts Medical Center. Katrin has joined the staff of Quintiles to continue her efforts in clinical research and will remain a member of our adjunct faculty.

Debbie Mitchell-Dozier fulfilled a long-time personal goal to donate a kidney (page 8). Her story was featured extensively on national and local news.

Research funding and publications in 2013 were at an all-time high. Clinical volume was steady at Tufts Medical Center and higher at our offsite practices, including continued growth in the Home Dialysis Program at DCI Somerville. Dr. Inker implemented an outpatient GFR measurement procedure in the Kidney Function Evaluation Clinic in the Kidney and Blood Pressure Center – we are the only medical center in Boston to offer this service. Thanks to Scott Gilbert’s leadership, we continue to receive accolades from the second year medical students for our teaching in the Renal Pathophysiology Course and from the medical residents at Tufts Medical Center, and Scott was ranked by the 1st and 2nd year medical students in the top 10% of all TUSM lecturers. He also received the Class of 2013 Citation for Excellence in
Teaching (for the 10th year in a row). Scott Gilbert and Dan Weiner led the publication of the Sixth Edition on the NKF Primer on Kidney Disease. Scott and Dan also directed the city-wide nephrology fellows Home Dialysis Training Program. DCI Somerville won the Darwin Peterson Award for clinical excellence. Michelle Richardson and Klemens Meyer are leading DCI’s efforts in implementing the ICH CAHPS survey and improvements in patient experience of care. Lesley Inker co-chaired the NKF KDOQI Guideline Commentary Workgroup on the KDIGO CKD Guideline Update. Seth Wright received a NIH F32 individual National Research Service Award (Dan Weiner, mentor) and Pranav Garimella was awarded (but declined) the 2013 Ben J. Lipps Research Fellowship Program from the American Society of Nephrology (Mark Sarnak, mentor). Ron Perrone, Mark Sarnak, Klemens Meyer and I were recognized among Boston’s “Top Doctors” in the December 2013 issue of Boston Magazine.

We celebrated one of the best ever World Kidney Days with Josef Coresh, MD, PhD, G.W. Comstock Professor of Epidemiology, Biostatistics & Medicine; Director, George W. Comstock Center for Public Health Research and Prevention; and the Director, Cardiovascular Epidemiology Training Program at Johns Hopkins University in Baltimore MD. He was the Harrington Visiting Professor to celebrate World Kidney Day in March (page 68).

Lastly, we thank all the donors of charitable contributions to the Schwartz, Harrington and Inker funds. We greatly appreciate these contributions, as the funds provide necessary assistance to continue our mission.

Once again, I thank Dr. Richardson for preparing this year’s Annual Report and for managing our website. I hope you enjoy learning about our activities, and as always, I welcome your feedback. We wish you and your family a happy and successful 2014!

Sincerely yours,

Andrew S. Levey, MD
Chief, William B. Schwartz Division of Nephrology
Tufts Medical Center
Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine
Tufts University School of Medicine
Division Family Tree

2013 Additions

After a 1 year hiatus, the Division family continued to grow in 2013, with 4 more babies being born to Division members. In the past 7 years, 35 babies have joined the Division. With only boys born in 2013, the boys are solidly outnumbering the girls—Boys 20; Girls 15.

Nicholas Paul born to Dana Miskulin & Paul Martyniuk
Joined big brother Philip on February 22 at 3:10 pm; 7lbs 7 oz, 21 inches

Noah Landon born to Alin John & Justin Joseph
Joined big brother Ethan on July 24 at 10:45pm; 6lbs 8 oz, 20 inches

Owen born to Kate Michener and Jon Roberts
October 1 at 5:01 am; 7 lbs 4oz, 21.5 inches

Oliver born to Daria Homenko & David Drew
May 12 at 5:07 pm; 7 lbs 5 oz, 21.3 inches
ASN Reception to Honor Andy in Atlanta GA

The Division hosted a reception to honor Andy Levey as the American Society of Nephrology’s 2013 Belding H. Scribner Award recipient. We were honored that current and former Division members, friends, family and colleagues were able to join us.
Surprise!

In December, the Gerald J. and Dorothy R. Friedman Foundation hosted a surprise party at the Four Seasons Hotel in Boston to honor Andy Levey as the American Society of Nephrology’s 2013 Belding H. Scribner Award recipient. As you can see from the picture in the Message from the Chief, Andy was truly surprised to see friends, family, and colleagues—both local and far away—join the Friedman Foundation for this special event. Moving tributes were given by Drs. Berman, Wagner, Madias, and Garabed Eknoyan.
“A Selfless Gift Makes Two Lives Whole”

In July, Debbie Mitchell-Dozier, nephrology nurse in the Kidney and Blood Pressure Center, achieved a life-long dream of being a kidney donor. Debbie met Pastor J. Kevin Harris at the Greater Love Tabernacle church in Dorchester where he was a visiting pastor. He revealed at the end of his sermon that he was in need of a kidney transplant. An amazing confluence of events led to his revelation and Debbie’s ability to donate her kidney to him.

Debbie and Pastor Harris the day before kidney transplant surgery

“Kidney donation is a gift not only for the recipient, who can be restored to good health, but also for the donor, who can fulfill a personal sense of obligation to help someone in need. All of us at Tufts MC should be proud to have a co-worker who goes so far above and beyond her professional responsibilities to make a tangible, long-lasting impact on people’s lives”

Andrew S. Levey, MD
Chief Division of Nephrology

Wayne Dozier, Debbie Mitchell-Dozier, Roberta Falke, Andy Levey
Dr. Levey donated a kidney to Roberta in a 3-way paired exchange in 2008 which inspired Debbie to move forward with her own donation process
Administration

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 offsite and onsite ambulatory, dialysis, and inpatient operations, with administrative and research operations located within the Tufts Medical Center campus. The location of activities performed both onsite at Tufts Medical Center and at offsite affiliates are listed in Table 1 and Table 2, respectively.

**Table 1: Onsite 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>35 Kneeland Street</td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td><em>American Journal of Kidney Diseases</em> Editorial Offices</td>
</tr>
<tr>
<td></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; &amp; 6&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Division support operations and physician and research staff offices</td>
</tr>
<tr>
<td>Ziskind</td>
<td>7&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Dr. Balakrishnan’s research lab</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: Offsite Clinical Nephrology Activities Affiliated with Tufts Medical Center**

<table>
<thead>
<tr>
<th>Physicians</th>
<th>Practice Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael B. Cohen, MD</td>
<td>• Pratt Medical Group Nephrology and Hypertension Concord MA</td>
</tr>
<tr>
<td></td>
<td>• Emerson Hospital Concord MA</td>
</tr>
<tr>
<td>Anthony Z. Dash, MD</td>
<td>• DCI Walden Pond Concord MA</td>
</tr>
<tr>
<td>Klemens B. Meyer, MD</td>
<td>• Reading MA and hospital-based clinics at Lawrence Memorial in Medford MA, Melrose-Wakefield in Melrose MA and St. Elizabeth’s Medical Center in Brighton MA</td>
</tr>
<tr>
<td>Dana C. Miskulin, MD, MS</td>
<td>• St. Elizabeth’s Medical Center, Kindred in Boston MA, Lawrence Memorial, Melrose-Wakefield, Whidden in Everett MA, and Winchester hospitals</td>
</tr>
<tr>
<td>Madhumathi Rao, MD, PhD</td>
<td>• DCI Ball Square in Somerville MA, St. Elizabeth’s Medical Center, Malden, Medford, Saugus, Stoneham, and Woburn dialysis units</td>
</tr>
<tr>
<td>Gautham Viswanathan, MD</td>
<td>• Inpatient consultation and dialysis services</td>
</tr>
<tr>
<td>Daniel E. Weiner, MD, MS</td>
<td>• Outpatient dialysis services</td>
</tr>
<tr>
<td></td>
<td>• Outpatient nephrology</td>
</tr>
</tbody>
</table>
**Staffing**

**Physician Staff**
Andrew S. Levey, MD, FNKF, Chief  
Ronald D. Perrone, MD, Associate Chief  
V. S. Balakrishnan, MD, MRCP, PhD  
Michael B. Cohen, MD  
Anthony Z. Dash, MD  
Scott J. Gilbert, MD, FASN  
Lesley A. Inker, MD, MS, FRCP(C)  
Andrei Kouznetsov, MD  
Amy B. Kuhlik, MD  
Klemens B. Meyer, MD  
Dana C. Miskulin, MD, MS, FRCP(C)  
Monika Pilichowska, MD, PhD  
Valerie Price, MD  
Madhumathi Rao, MD, PhD, FRCP(E)  
Mark J. Sarnak, MD, MS, FASN  
Gautham Viswanathan, MD, MS  
Daniel E. Weiner, MD, MS, FNKF  
Seth Wright, MD  

**Special and Scientific Staff**
Meredith C. Foster, ScD, MPH  
Michelle M. Richardson, PharmD, BCPS  

**Associate Physician Staff**
Bertrand L. Jaber, MD, MS, FASN  
Nicolaos E. Madias, MD, FASN  

**Adjunct Physician Staff**
Carmen Castaneda-Sceppa, MD, PhD  
Miguel Cendoroglo, MD  

Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine  
Professor of Medicine  
Associate Professor of Medicine  
Assistant Professor of Medicine  
Assistant Professor of Medicine  
Associate Professor of Medicine  
Associate Professor, Tisch College, Tufts University  
Associate Professor of Medicine  
Assistant Professor of Medicine  
Assistant Professor of Medicine  
Assistant Professor of Medicine  
Dean for Students Affairs, TUSM  
Professor of Medicine  
Associate Professor of Medicine  
Assistant Professor of Pathology  
Assistant Clinical Professor of Medicine  
Assistant Professor of Medicine  
Assistant Professor, Department of Public Health and Community Medicine  
Professor of Medicine  
Instructor of Medicine  
Assistant Professor of Medicine  
Instructor of Medicine  
Research Assistant Professor of Medicine  
Assistant Professor of Medicine  
Professor of Medicine  
Vice Chair for Clinical Affairs  
Department of Medicine  
St. Elizabeth’s Medical Center  
Maurice S. Segal, MD Chair in Medicine  
Chairman, Department of Medicine  
Academic Dean of TUSM  
St. Elizabeth’s Medical Center  
Associate Professor  
Director, Graduate Program in Exercise Science  
Northeastern University  
Associate Professor of Medicine, Division of Nephrology  
Federal University of Sao Paulo  
Medical Director and Superintendent  
Hospital Israelita Albert Einstein  
Sao Paulo, Brazil
Ezra Gabbay, MD, MS  Division of Adult Nephrology  Shaare Zedek Medical Center  Jerusalem, Israel

John S. Gill, MD, MS  Associate Professor of Medicine  Transplant Fellowship Director  University of British Columbia and St. Paul’s Hospital  Vancouver, Canada

Tazeen H. Jafar, MD, MPH  Director, Clinical Epidemiology Unit  The Noormahomed Pirmahomed Sheriff Professor (Nephrology & Community Health)  Department of Medicine  Department of Community Health Sciences  Aga Khan University  Karachi, Pakistan

Gregorio T. Obrador, MD, MPH  Professor of Medicine  Dean  Universidad Panamericana Health Sciences Faculty and School of Medicine  Mexico City, Mexico

Brian J.G. Pereira, MD, MBA  Professor of Medicine  Tufts University School of Medicine  President and CEO  Visterra Inc  Cambridge MA

Katrin Uhlig, MD, MS  Adjunct Associate Professor of Medicine  Director, Epidemiology  Quintiles  Cambridge MA

Martin Wagner, MD, MS  Adjunct Instructor  Resident/Fellow  Department of Medicine I, Division of Nephrology  University Hospital of Würzburg, Germany  Würzburg, Germany

Faculty Emeriti

John T. Harrington, MD  Professor of Medicine  Dean Emeritus, TUSM

Jerome P. Kassirer, MD  Distinguished Professor  Special Assistant to the Dean, TUSM

Management Staff

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

Krista Boisclair, MS  Research Administrator II
Faculty Descriptions

Andrew S. Levey, MD
Dr. Levey is Dr. Gerald J. and Dorothy R. Professor of Medicine at Tufts University School of Medicine and Chief, William B. Schwartz Division of Nephrology at Tufts Medical Center.

Dr. Levey’s research interests include measurement and estimation of kidney function, epidemiology of chronic kidney disease (CKD), treatments to slow the progression of CKD, cardiovascular disease in CKD, nutrition in CKD, and assessment of outcomes in patients treated by dialysis and kidney transplantation. Dr. Levey has a long history of participating in multicenter clinical trials and cohort studies. For the past 15 years, he has been at the forefront of the development of equations to estimate glomerular filtration rate (GFR) from serum creatinine and cystatin C 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 leads 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.

Additional areas of interest include patient care, training in research and education, and health care policy related to 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 formerly Associate Editor for kidney disease and hypertension for the Annals of Internal Medicine and is current Editor-in-Chief of the American Journal of Kidney Disease.

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

Ronald D. Perrone, MD
Dr. Perrone has had 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 since 1999 (Chairman from 2006-2010) and frequently lectures at national and local patient meetings. He served as Co-Investigator with Dr. Andrew Levey in the pilot and planning phases (Phase I and II) of the Modification of Diet in Renal Disease (MDRD) study and played a fundamental role in the validation and use of the $^{125}$I-iothalamate protocol used for the MDRD and other clinical trials of progressive kidney disease. Dr. Perrone serves as site PI and member of the steering committee for the TEMPO 251 study of tolvaptan in ADPKD. He also serves as site PI and member of the steering committee for the NIDDK-sponsored HALT PKD study. Over the past 4 years, Dr. Perrone 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. 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.

Vaidyanatha S. Balakrishnan, MD, MRCP, PhD
**Dr. Balakrishnan**’s clinical specialties are CKD, dialysis, transplantation, and the treatment of kidney stones. His research interests focus on factors modulating inflammation and oxidative stress and their impact on clinical outcomes among patients with CKD, particularly those on hemodialysis. He is interested in the impact of pro-inflammatory and anti-inflammatory cytokines and cytokine-specific inhibitory proteins on clinical outcomes in patients on hemodialysis. In recent years, Dr. Balakrishnan’s research has focused on the role of genetic factors, particularly single nucleotide polymorphisms involving the cytokine genes, modulating the micro-inflammatory state and clinical outcomes among hemodialysis patients. He has also focused his attention on the mitochondrial genome and mitochondrial biogenesis and their impact on the complications associated with CKD. Dr. Balakrishnan has received several research awards for his work on oxidative stress and inflammation. He is the Director of Continuing Medical Education for the Division and coordinates research conferences and visiting professorships.

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 Co-Medical Director at the DCI Ball Square dialysis unit in Somerville. Additionally he is involved with teaching medical students, residents, and fellows in nephrology.

Anthony Z. Dash, MD
**Dr. Dash** practices primarily at Lawrence Memorial Hospital, St. Elizabeth’s Medical Center (SEMC), and the Concord practice. 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. Dash is the Co-Medical Director at the DCI Ball Square dialysis unit in Somerville.

Scott J. Gilbert, MD, FASN
**Dr. Gilbert** coordinates educational activities within the Division. He is 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 second year course *From Health to Disease*, leader of the Renal section, and coordinates the fourth 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 and the Community Service Requirement, and chairs the Pre-Clinical Course Director and Curriculum Integration Committees. 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 the Education Editor of the *American Journal of Kidney Disease*, and the Editor of the *Primer on Kidney Disease, 6th Edition*. His clinical interests are the treatment of CKD, renal artery stenosis, hemodialysis, and
transplantation. Dr. Gilbert’s research interests include the management of lupus nephritis and the cardiorenal syndrome, and the treatment of renal artery stenosis. Dr. Gilbert is an Associate Professor of Medicine at TUSM.

Meredith C. Foster, ScD, MPH
Dr. Foster joined the Division in September 2013 after completing her post-doctoral fellowship in epidemiology at the Johns Hopkins Bloomberg School of Public Health. Her research interests include the impact of body composition on filtration markers, novel serum and urinary biomarkers in CKD as part of the CKD Biomarkers Consortium, and the burden of cardiovascular disease and risk factors in CKD. Within the Division, she works primary with Drs. Levey and Inker. Dr. Foster is also a statistical editor for the American Journal of Kidney Diseases.

Lesley A. Inker (formerly Stevens), 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 and outcomes related to CKD. She was 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 involved in several projects to measure GFR in populations which have not been well represented in studies of measured GFR, such as the elderly, patients with HIV and African Americans. Using these data and others, she is 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 she is the director of the analytical team to evaluate alternative creatinine based outcomes as part of an FDA-NKF workshop held December 2012. Dr. Inker is co-chair of the Kidney Disease Outcome Quality Initiative (KDOQI) committee on the CKD Guidelines, which has recently completed a commentary on the KDIGO guidelines. Dr. Inker’s clinical interests are general nephrology, GFR measurement and estimation, detection and treatment of CKD, geriatric nephrology, HIV-associated kidney disease, and kidney stones. She is the Director of the Kidney and Blood Pressure Center, the Kidney Function Evaluation Center, and for Quality Improvement for the Division.

Bertrand L. Jaber, MD, MS, FASN
Dr. Jaber’s primary appointment is in the Department of Medicine at SEMC where he serves as Vice Chair for Clinical Affairs in the Department of Medicine and he also directs the Kidney and Dialysis Research Laboratory. His research efforts focus 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 also conducts meta-analyses on preventive and treatment strategies for acute kidney injury. He has also examined the role of more frequent hemodialysis for the treatment of chronic kidney failure. Dr. Jaber is a Professor of Medicine at Tufts University School of Medicine and is a member of its Faculty Senate. He is also a faculty member of the Sackler School of Graduate Biomedical Sciences, and is co-editor for the American Journal of Kidney Diseases. Dr. Jaber recently served as Chair of the American Society of Nephrology Acute Kidney Injury Advisory Group.
Andrei Kouznetsov, MD
Dr. Kouznetsov practiced at Emerson Hospital and the Pratt Medical Group Nephrology and Hypertension offices in Concord MA. Dr. Kouznetsov was also the Associate Medical Director of DCI Walden Pond in Concord MA. His clinical specialties are CKD, hypertension, dialysis, transplantation, and general nephrology.

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.

Nicolaos E. Madias, MD, FASN
Dr. Madias’ primary appointment is in the Department of Medicine at St. Elizabeth's Medical Center (SEMC). He is Chairman of the Department of Medicine at SEMC, 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 several projects on the epidemiology and management of hyponatremia and the assessment of acid-base disorders.

Klemens B. Meyer, MD
Dr. Meyer is Director of Dialysis Services at Tufts Medical Center, Medical Director at Dialysis Clinic Inc. (DCI) Boston and DCI Walden Pond, Medical Director for the Home Dialysis Program at DCI Ball Square, and Professor of Medicine at TUSM. Dr. Meyer’s clinical interests are CKD, dialysis, and kidney transplantation. 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 two 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.

Dana C. Miskulin, MD, MS, FRCP (C)
Dr. Miskulin is the recipient of a K23 Career Development Award from the NIDDK pertaining to the measurement of case-mix severity in dialysis patients and its application to clinical trials and the assessment of quality of care of dialysis patients. Dr. Miskulin also directs the DCI Comorbidity Assessment Project whose goal is to develop and implement procedures for the collection of comorbidity information and adjustment for comorbidity in reporting the quality of care provided at DCI facilities. Dr. Miskulin is also a Co-Investigator for the HALT-PKD Study. Her clinical interests are in general nephrology, polycystic kidney disease, and kidney stones. In 2012, Dr. Miskulin was promoted to Associate Professor of Medicine.

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.

Valerie Price, MD
Dr. Price practiced at Emerson Hospital and the Pratt Medical Group Nephrology and Hypertension offices in Concord MA. Her areas of interest include acute kidney injury and chronic kidney failure, management of chronic dialysis patients and electrolyte disorders. In addition Dr. Price worked closely with community urologists to manage kidney stone disease. She volunteers at a local school, teaching children about anatomy and physiology.

Madhumathi Rao, MD, PhD, FRCP (E)
Dr. Rao’s research interests include the metabolic and inflammatory complications of CKD and ESRD. She is currently funded by the Paul Teschan Research Fund to study the role of the gut microbiota in the genesis of inflammation in dialysis patients. Her other research work has addressed the genetic basis of cardiovascular and kidney disease progression among patients with diabetic and non-diabetic CKD for which she was supported by a K23 career development award from the NIDDK and the role of mitochondrial genetics in CKD complications, for which she was supported by an R-21 award from the NIA and the NKF Young Investigator award. Dr. Rao has an active collaboration in Southern India to study the epidemiology of CKD in developing countries. She also works with the Tufts Evidence Practice Center looking at comparative effectiveness of diagnostic and device interventions. She is the course director for cardiovascular epidemiology for the MD-MPH course in the Tufts University School of Medicine and co-teaches the genetic epidemiology course in the Master of Science Program at the Sackler School of Graduate Biomedical Sciences at Tufts University. In addition, Dr. Rao serves on the Institutional Review Board and the Scientific Advisory Committee. Her clinical interests include critical care nephrology, genetic kidney disease and renal bone disease.

Michelle M. Richardson, PharmD, BCPS
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 satisfaction in patients with kidney disease. Since 1994, she has directed the Outcomes Monitoring Program (OMP) for Dialysis Clinic, Inc. The OMP was the first program of its kind to routinely use patient-reported outcomes in clinical care. Dr. Richardson actively collaborates with corporate and clinic administration and staff to not only administer surveys to measure HRQOL and patient experience of care but to integrate the results into clinical care and quality improvement initiatives with the ultimate goal of improving patient care. As a pharmacist, her clinical interests involve appropriate dosing and use of medications in patients with CKD. She is also the Director of Communications for the Division and is responsible for producing this Annual Report and maintaining the Division’s Web site.

Mark J. Sarnak, MD, MS, FASN
Dr. Sarnak is the Director of Research in the Division of Nephrology, Associate Director of the Research Training Program, and Professor of Medicine at Tufts University School of Medicine. His research focuses on traditional and non-traditional cardiovascular risk factors in chronic kidney disease (CKD), aging and kidney disease, and cognitive function and CKD. Dr. Sarnak is funded by the NIDDK and the National Institutes of Aging (NIA) to perform these research projects. Dr. Sarnak’s clinical specialties are in cardiovascular disease in patients with kidney disease, management of CKD, dialysis, kidney transplantation, and kidney stones.
Gautham Viswanathan, MD, MS
Dr. Viswanathan finished his clinical and research fellowship in nephrology at Tufts Medical Center in 2012 and joined the Division as a staff nephrologist. Dr. Viswanathan practices primarily at Emerson Hospital and St. Elizabeth’s Medical Center. He consults in the inpatient setting on the care of patients with kidney disease, electrolyte disorders, and those treated with hemodialysis and peritoneal dialysis.

Daniel E. Weiner, MD, MS
Dr. Weiner is the 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. He also was the recipient of a Carl W. Gottschalk Research Scholar Grant from the American Society of Nephrology to investigate the medical, ecologic and economic impact of dialyzer reprocessing practices and recently completed a K23 Career Development Award from the NIDDK to investigate cerebrovascular disease and cognitive impairment in individuals with CKD. His current 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 as well as epidemiologic research in dialysis. Additionally, he leads Tufts’ involvement in the multicenter NIH-funded Systolic Blood Pressure Intervention Trial (SPRINT), which will help elucidate the appropriate blood pressure goal for antihypertensive treatment in non-diabetic adults, and he is a co-investigator at Tufts for the Simplicity HTN4 clinical trial evaluating renal denervation. He is collaborating with public health researchers from Boston University to investigate CKD among workers in rural Nicaragua. Dr. Weiner is the Associate Medical Director of DCI Boston. In this role, he is working to enhance care for dialysis patients and dialysis education at Tufts Medical Center. Since October 2006, Dr. Weiner has been the Deputy Editor of the American Journal of Kidney Diseases. In this position, working with a dedicated staff, he is responsible for many of the day-to-day operations of the Journal, and has endeavored to develop new content while maintaining excellence. Dr. Weiner is the co-Editor in Chief of the National Kidney Foundation’s Primer on Kidney Diseases, 6th edition. Dr. Weiner is also an active member of the American Society of Nephrology, where is currently the chair of the Quality Metrics Task Force and is a member of the Public Policy Board. Dr. Weiner’s clinical specialties are general nephrology and home and in-center dialysis. Dr. Weiner is also active in medical education and is the Chair of the Curriculum Committee at TUSM.

Seth Wright, MD
Dr. Wright finished his clinical fellowship in Nephrology at Beth Israel Deaconess Medical Center in 2009. He began a second research fellowship at Tufts Medical Center in 2012 and joined the Division as clinical staff in 2013. His clinical practice is primarily in the inpatient setting at Tufts Medical Center, providing 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.
Division Staff

Administration

Members of the support staff sustain the Division’s administrative, clinical, and research operations. Geneva Tucker, the Business Operations Manager, supervises 26 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 functions 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 assistant, and transplant nurse practitioners to provide high-quality care and customer service to our patients. The Business Operations Manager also oversees the Division’s Fellowship program, currently staffed as 9 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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<tbody>
<tr>
<td>Nicole Collado</td>
<td>Fellowship Program Coordinator</td>
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<tr>
<td>Lorna Davies</td>
<td>Administrative Coordinator</td>
</tr>
<tr>
<td>Neva Parsons</td>
<td>Administrative Coordinator</td>
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Kidney and Blood Pressure Center Staff

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<th>Staff Member</th>
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<tbody>
<tr>
<td>Alesha Brown</td>
<td>Medical Assistant</td>
</tr>
<tr>
<td>Helen Freedman</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Hasnaa Moussaif</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Debbie Mitchell-Dozier, RN</td>
<td>Staff Nurse</td>
</tr>
<tr>
<td>Christine Sullivan, MPA, PA-C</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Finna Tam</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Jennifer Trignano, PA-C</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Elizabeth Wenger, MA</td>
<td>Clinic Supervisor</td>
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Pratt Medical Group Nephrology and Hypertension, Concord

<table>
<thead>
<tr>
<th>Staff Member</th>
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<tbody>
<tr>
<td>Elizabeth Alphen</td>
<td>Practice Coordinator</td>
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</table>
Research Support Staff (i.e., Assistants, Associates, & Statisticians)

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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<tbody>
<tr>
<td>Lily Chan</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Ryan Coffey</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Li Fan</td>
<td>Research Volunteer</td>
</tr>
<tr>
<td>Heather Friedman</td>
<td>Clinical Research Coordinator III</td>
</tr>
<tr>
<td>Shana Haynes</td>
<td>Clinical Research Coordinator II</td>
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<tr>
<td>Alyson Heath</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Elise Hoover</td>
<td>Clinical Research Coordinator III</td>
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<tr>
<td>Amy Kantor</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Xun Liu, MD</td>
<td>Research Volunteer</td>
</tr>
<tr>
<td>Alice Martin, RN</td>
<td>Research Nurse</td>
</tr>
<tr>
<td>Taylor Masaschi</td>
<td>Research Assistant II</td>
</tr>
<tr>
<td>Fadi Obeid</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Aghogho Okparavero</td>
<td>Clinical Research Associate II</td>
</tr>
<tr>
<td>Gertrude (Peachy) Simon, RN</td>
<td>Clinical Research Associate IIA</td>
</tr>
<tr>
<td>Veronika Testa, RN, CCRC</td>
<td>Clinical Research Associate IIA</td>
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Research Administration

Krista Boisclair, MS Research Administrator, 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 grants management and coordination with research activities of the Division. Research activities of the Division are discussed in more detail starting on page 36.

American Journal of Kidney Diseases

Nijsje Dorman, PhD, is Managing Editor for the American Journal Kidney Diseases. Dr. Dorman is responsible for all aspects of editorial operations of the journal. More information about AJKD is on page 55.

American Journal of Kidney Diseases Editorial Office Staff

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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<tbody>
<tr>
<td>Elizabeth Bury, MFA</td>
<td>Associate Managing Editor</td>
</tr>
<tr>
<td>Emily Fay, MA</td>
<td>Editorial Assistant</td>
</tr>
<tr>
<td>Barbara Saper</td>
<td>Editorial Office Associate</td>
</tr>
</tbody>
</table>
Faculty and Staff Changes in 2013

Faculty Changes

- In September, Meredith C. Foster, ScD, MPH joined the Division as a Research Assistant Professor. She joined the Division after completing her post-doctoral training in epidemiology at Johns Hopkins Bloomberg School of Public Health.

- In March after many years of service, Dr. Andrei Kouznetsov left his practice with the Pratt Medical Group in Concord MA and in December, Dr. Val Price also resigned. The Division is committed to providing state-of-the care to patients at this site. As a result, Drs. Dash and Rao are caring for patients in the Pratt Medical Group Concord practice.

- Dr. Uhlig began working for Quintile Outcomes as the Director of Epidemiology. She is maintaining her affiliation with the Division and is Adjunct Associate Professor.

Staff Changes

Administrative

- After many years of dedicated service, Neva Parsons left her position to move to Augusta ME and work as an Executive Assistant at Maine General Hospital. Nicole Collado joined the Division in December to fill Neva’s shoes in supporting Geneva Tucker along with Drs. Balakrishnan, Gilbert, and Sarnak. Nicole attended Mass Bay Community College where she earned an Associates Degree in Paralegal Studies.

Clinical

- Elizabeth (Betty Ann) Alphen is currently the Practice Coordinator at Pratt Nephrology and Hypertension in Concord MA. She replaces Julie Flynn and Nancy Casacca who worked in the Concord MA practice.

Research

- Xun Liu, MD an Associate Professor of Nephrology and Master-Supervisor in the Division of Nephrology, Department of Internal Medicine at the 3rd Affiliated Hospital of Sun Yat-sen University located in Guangzhou China is spending 1 year in the Division as a visiting scholar.

- Elise Hoover, Boston University Masters in Public Health student, was hired to work with Dr. Perrone on studies in polycystic kidney disease. She replaced Heather Friedman.
Service

Members of the Division are actively involved in local, national, and international service.

Service to Tufts Medical Center

- **Ryan Coffey** is a member of the Tufts MC Employee Engagement Council. The purpose of this council is for employees to have a greater voice. Their goals are to promote ways to make Tufts MC a better place to work and to ensure all employees feel involved and respected in the decision making process.

- Dr. **Gilbert** serves on the Internal Medicine Residency Clinical Competency Committee, the Graduate Medical Education Committee, and the Internal Medicine Residency Curriculum Committee.

- In 2013, Dr. **Meyer** completed his service as the medical staff sponsor for the Schwartz Center Rounds.

- Dr. **Perrone** continues to serve as the United Network for Organ Sharing (UNOS) certified Transplant Physician at Tufts Medical Center.

- Dr. **Rao** is a member of the Tufts Medical Center Investigational Review Board.

- Dr. **Sarnak** is a member 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.

- Drs. **Sarnak, Balakrishnan, Gilbert**, and **Weiner** are members of the Tufts Medical Center Internal Medicine Residency Intern Selection Committee.

- Dr. **Weiner** is the Chair of the Tufts Clinical and Translational Science Institute (CTSI) Operations Committee. The mission of the Tufts CTSI is to identify, stimulate, and expedite innovative clinical and translational research with the goal to improve the public’s health.

Service to TUSM/Sackler School of Graduate Biomedical Sciences

- Several members of the Division have roles on the TUSM Curriculum Committee; Dr. **Weiner** is the Chair, Dr. **Gilbert** is an *Ex Officio* member, and Dr. **Inker** is a member.

- Dr. **Gilbert** serves on several TUSM committees including the Learning Community Steering Committee, and the Community Service Learning Effort Steering Committee. He chairs the Objective Structured Clinical Examination
(OSCE) Committee, the Curriculum Integration Committee, and the Pre-Clinical Course Directors Committee.

- Dr. Jaber is on the Faculty Senate at TUSM.
- Dr. Madias is a member of the TUSM Executive Council.
- Dr. Meyer serves as a faculty advisor for the Galen Society.
- Dr. Rao is a member of the TUSM Scientific Affairs Committee and a grant reviewer for the Charlton Awards.

**Service to Professional Organizations**

In addition to providing service on a local level, Division members are actively involved in providing service to our professional organizations nationally and internationally.

- Dr. Balakrishnan is a member of the Scientific Advisory Board of AMAG Pharmaceuticals, Inc.
- Dr. Balakrishnan is a member of the Clinical Research Grants Review Committee for the National Kidney Foundation.
- Dr. Gilbert is a member of the Panel for Accreditation Appeals in Nephrology Accreditation Council for Graduate Medical Education. He also serves as a member of the Medical Advisory Board of the NKF Serving New England and the Executive Committee of the Nephrology Training Program Directors for the American Society of Nephrology.
- Dr. Inker is the chair of the Clinical Oversight Committee of KEEP and a member of the National Kidney Disease Education Program Laboratory Work Group.

![KEEP logo]({})

- Dr. Inker is the Chair of the International Classification of Diseases in the United States and a member of the Renal Working Group for the development of the 11th version of the International Classification of Diseases, World Health Organization.
- Dr. Inker also serves on the NIDDK United States Renal Data System (USRDS) External Advisory Committee as well as the Vascular Access Consortium External Advisory Committee.
• Dr. Inker is the Co-Chair of the KDOQI Guideline Commentary Workgroup for the new KDIGO Chronic Kidney Disease Guideline Update.

• Dr. Jaber has several service commitments to the American Society of Nephrology. He is the Chair of the Acute Kidney Injury Advisory Group, sits on the Patient Quality & Safety Taskforce, and participated in the American Society of Nephrology Hill Day Delegation.

• Dr. Jaber is a member of the Scientific Advisory Board for Chronic Therapies at NxStage Medical in Lawrence MA.

• Dr. Levey is a member of the NKF Scientific Advisory Board.

• Dr. Madias reviewed abstracts under the subject heading Acid-Base: Basic for the 2013 American Society of Nephrology meeting.

• Dr. Madias is a member of the Advisory Board for the Hellenic Bioscientific Association in the USA.

• Dr. Meyer is a member of the United States Renal Data System External Advisory Committee and also the Fistula First Breakthrough Initiative.

• Dr. Meyer has many roles at Dialysis Clinic, Inc. He is the Medical Director for both the 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 Technical Expert Panel on Anemia and also the Technical Expert Panel on Chronic Kidney Disease-related Mineral and Bone Disorders convened by Arbor Research on behalf of the Centers for Medicare and Medicaid Services. In addition, he is a member of the Renal Disease and Detoxification Committee of the Association for the Advancement of Medical Instrumentation and the American Association of Kidney Patients Medical Advisory Board.

• Drs. Miskulin and Meyer are members of the Quality Management Committee of Dialysis Clinic Inc.

• Dr. Miskulin is the Chair of the Endpoints Committee for the HALT-PKD Study.

• Dr. Perrone is Co-Executive Director of the Polycystic Kidney Disease Outcomes Consortium.
Dr. Perrone is the Chair of the UNOS Region 1 Renal Transplant Oversight Committee. This is the United Network of Organ Sharing (UNOS) group that oversees kidney transplantation in New England.

Dr. Perrone is the Region 1 Representative on the OPTN/UNOS Kidney Transplant Committee. His term on the committee began in 2012 and will end in June 2014.

Since 2006, Dr. Sarnak has been the co-chair of the Cardiovascular Health Study (CHS) Renal Work Group. He is also on the writing committee of the cardiovascular subcommittee of the Hemodialysis (HEMO) Study.

Dr. Sarnak is the Co-Chair of the KDIGO Clinical Practice Guideline for Lipid Management in CKD and on the steering committee for the CKD Prognosis Consortium.

Dr. Weiner serves professional societies in a number of ways. He is the chair of the ASN Quality Metrics Task Force, a grant reviewer for the NIDDK Special Emphasis Panel and a member of the NHLBI Ancillary Studies Section; a member of the Dialysis Clinic Inc. Medical Director Research Committee and the Quality Management Committee; and a member of the 2013 and the 2013 NKF Spring Clinical Meeting Planning Committees. In addition, he is the ASN representative with Kidney Care Partners and a member of the KDOQL Hemodialysis Adequacy Guideline Update workgroup.

**Administrative Honors and Awards**

This year, Division members either received or were notified that they will receive awards that recognize excellence in multiple areas. Given that the awards don’t fit neatly into Annual report categories, we list them here.

- Dr. Levey received the American Society of Nephrology’s Belding H. Scribner Award. This award is presented annually to one or more individuals who have made outstanding contributions that have a direct impact on the care of patients with renal disorders or have substantially changed the clinical practice of nephrology. Established in 1995, this award honors the physician who developed the arteriovenous shunt that first made long term hemodialysis for chronic renal failure possible.

- Three division of Nephrology Faculty learned that they will be recognized for their work by the National Kidney Foundation at the 2014 NKF Spring Clinical Meeting. Dr. Mark J. Sarnak will be delivering the Shaul G. Massry Distinguished Lecture. The Massry Lectureship was established to honor Dr. Shaul G. Massry for his scientific achievements and his contributions to the kidney health care community and to the National Kidney Foundation.
• At the same meeting, Dr. Ronald D. Perrone will receive the Donald W. Seldin Distinguished Award which recognizes excellence in clinical nephrology in the tradition of one of the foremost teachers and researchers in the field, Dr. Donald W. Seldin.

• Also at the Spring Clinical Meeting, Dr. Katrin Uhlig will be the recipient of the Garabed Eknoyan Award. This award was created to recognize an individual who has promoted the mission of the National Kidney Foundation in Making Lives Better for people with kidney disease through exceptional contributions to key initiatives of NKF such as the Kidney Disease Outcomes Quality Initiative (KDOQI) or clinical research in the field of kidney disease.

• In 2014, Dr. Perrone will also be recognized by the PKD Foundation at its Gratitude benefit as the Physician of the Year.

Patient Care

The Division provides diagnostic and treatment expertise for patients with chronic kidney diseases, including kidney failure and kidney transplantation, acute kidney injuries, fluid and electrolyte disorders, and all forms of hypertension. The staff has expertise in evaluation and treatment of nephrotic syndrome, various glomerular diseases, diabetic kidney disease, polycystic kidney disease, urinary tract infections, urinary reflux and obstruction, kidney stones, and all other kidney diseases. Special diagnostic and treatment modalities offered by the division include glomerular filtration rate estimation, kidney biopsy, transplant immunosuppression, ambulatory blood pressure monitoring, percutaneous transluminal renal angioplasty and stenting, hemodialysis, peritoneal dialysis, continuous venovenous hemofiltration, vascular access monitoring and repair, and kidney transplantation.

All our clinical programs continue to expand, offering care for a wide range of complex and complicated issues associated with acute and chronic kidney disease. The following section highlights our clinical programs.
2013 Outpatient Patient Care Initiatives

- In 2013, the Kidney Function Evaluation Clinic was opened under the direction of Dr. Inker. This Clinic is for 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.

Continuing Outpatient Patient Care Initiatives

Outpatient Program Descriptions

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. Balakrishnan, Gilbert, Inker, Kuhlik, Levey, Meyer, Miskulin, Perrone, and Sarnak.

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, 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).

In collaboration with Jane Maxim RN, DCI Ball Square Home Dialysis Nurse Manger, Debbie Mitchell-Dozier R.N. holds patient education sessions. The Renal 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

This year, under the direction of Dr. Inker, the division opened its Kidney Function Evaluation Center. 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
A GFR measurement is useful as a confirmatory test for GFR estimated from serum creatinine. 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.

**Home Dialysis**

The Division of Nephrology participates in a regional home dialysis program which treats about 60 patients by peritoneal dialysis and home hemodialysis at DCI’s Ball Square facility in Somerville. This 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. Among current patients, 33 originate from the Division of Nephrology’s Boston practice. Thus, about 25% of dialysis patients treated in this practice dialyze at home, compared to fewer than 10% nationally. Drs. Meyer, Weiner, Miskulin, Balakrishnan, Dash, and Cohen hold monthly home dialysis clinics at DCI Ball Square and Dr. Rao holds a monthly home dialysis clinic at DCI Walden Pond.

**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 polycystic kidney disease. The Center’s physicians are internationally recognized experts in treating and managing the complications of PKD. In addition to Drs. Perrone 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; Richard Rohrer, MD, Chief, Transplant Surgery; Michael Tarnoff, MD, Surgeon,
Minimally Invasive Surgery Center; Laurence H. Brinckerhoff, M.D., Division of Thoracic Surgery; and Diana Bianchi, MD, Executive Director, Mother and Infant Research Unit, Floating Hospital for Children.

This center also addresses the complications of polycystic kidney disease resulting in new transplants, aneurysm repair, video thorascopic splanchnicectomy (VSPL) for relief of intractable cyst pain, laparoscopic cyst reduction, and expansion of the nephrology practice at Tufts Medical Center. As part of this PKD center, Dr. Perrone has initiated a PKD clinic during which he and Dr. Miskulin see new patients referred specifically for expert advice regarding complications of cystic disease. This clinic meets biweekly and is staffed in rotation by Dr. Perrone or Dr. Miskulin with participation by clinical or research fellows on a rotating basis. The fellows have responded enthusiastically to this activity that provides a unique opportunity to see the wide range of complications in this disease.

**Kidney Transplantation Program**

Although all Division attending physicians in the KBPC see kidney transplant patients, the Division of Nephrology runs a specific Transplant Multidisciplinary clinic on Wednesday mornings. This clinic is staffed by Dr. Perrone, Medical Director of Kidney Transplantation, and also staffed by one of the Transplant surgeons. Two nurse practitioner transplant coordinators also attend the clinic, one working with Dr. Perrone and one with the Transplant Surgeon. Consultation and interaction regarding new and long-term kidney transplant recipients, kidney transplant candidates, and kidney donors is easily and frequently accomplished. Another benefit of this joint activity is the facilitation of dialysis access planning and interventions. Dr. Gilbert also works closely with one of the transplant coordinators, seeing patients on Tuesday mornings in the KBPC. The kidney transplant program has excellent overall outcomes. Kidney transplant patient and graft survival rates of 99.0% and 97.7%, respectively, are truly outstanding.

**The DCI Ball Square Home Program received the DCI Darwin Peterson Award!**

**In-Center Hemodialysis**

Drs. Meyer and Weiner direct the dialysis program at Tufts Medical Center 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), a national not-for-profit dialysis organization which sets the national benchmark for quality of care.
DCI Boston

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. Debbie Van Allen, RN, MS, who joined the dialysis program in 1976, manages the in-center dialysis program. The hemodialysis nursing staff have a median of more than 25 years’ experience in dialysis. The Division’s research and administrative offices are adjacent to DCI Boston. Physical proximity makes frequent patient contact practical and physicians round on each patient shift twice a week. About 80% of patients dialyze by native vein fistula, about 10% each by graft and by catheter. In 2013, DCI Boston became the first facility to implement DARWIN Direct, DCI’s new hemodialysis machine interface and data entry program.

According to the 2013 CMS Dialysis Facility Report, in 2012 as compared to local peers and national data, DCI Boston had far fewer patients hospitalized with bacteremia; the Standardized 1st Transplantation Ratio (STR) was 102% higher than expected and 3-times as many patients were on the kidney transplant waitlist. In addition, more DCI Boston patients were vaccinated and far fewer patients had a catheter which had been in place for at least 90 days as their only vascular access.

Table 3: Outpatient Hemodialysis Units Affiliated with Tufts Medical Center

<table>
<thead>
<tr>
<th>Location</th>
<th>Dialysis Unit</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, Associate Medical Director</td>
</tr>
<tr>
<td>Somerville</td>
<td>DCI Ball Square</td>
<td>Anthony Z. Dash MD, Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Michael B. Cohen MD, Co-Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Klemens B. Meyer MD, Medical Director for Home Dialysis</td>
</tr>
<tr>
<td>Concord</td>
<td>DCI Walden Pond</td>
<td>Klemens B. Meyer MD, Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gautham Viswanathan MD, Associate Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Madhumathi Rao MD, Associate Medical Director</td>
</tr>
</tbody>
</table>

Outpatient Volume

Table 4 shows outpatient volume at Tufts Medical Center and the Pratt Medical Group Nephrology and Hypertension in Concord. Table 5 shows outpatient dialysis visits by Division-affiliated physicians. All volume numbers are for the Tufts Medical Center and DCI fiscal year 2013 (October 2012—September 2013), unless otherwise stated.
Table 4: Comparison of Outpatient Activity: Fiscal Year 2012 vs. 2013

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year 2012</th>
<th>Fiscal Year 2013</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tufts Medical Center</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kidney Blood Pressure Center</td>
<td>4,997</td>
<td>5,015</td>
<td>0.4%</td>
</tr>
<tr>
<td>Pratt Medical Group Nephrology and Hypertension, Concord</td>
<td>1,670</td>
<td>1,441</td>
<td>-15%</td>
</tr>
<tr>
<td><strong>Dialysis Clinic, Incorporated</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boston (Tufts Medical Center) hemodialysis treatments</td>
<td>14,751</td>
<td>15,205</td>
<td>3%</td>
</tr>
<tr>
<td>Ball Square hemodialysis treatments</td>
<td>11,850</td>
<td>10,867</td>
<td>-9%</td>
</tr>
<tr>
<td>Ball Square home-dialysis patients*</td>
<td>50</td>
<td>64</td>
<td>22%</td>
</tr>
<tr>
<td>Walden Pond hemodialysis treatments</td>
<td>6,152</td>
<td>6,202</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

*Total number of PD and home HD patients for calendar year 2013

Table 5: Comparison of Outpatient Dialysis Visits by Division Physicians at Affiliated Units: Fiscal Year 2012 vs. 2013

<table>
<thead>
<tr>
<th>Dialysis Unit</th>
<th>Number of Visits Fiscal Year 2012</th>
<th>Number of Visits Fiscal Year 2013</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Elizabeth’s Medical Center</td>
<td>195</td>
<td>149</td>
<td>-30%</td>
</tr>
<tr>
<td>Lawrence Memorial</td>
<td>104</td>
<td>109</td>
<td>4.5%</td>
</tr>
<tr>
<td>Saugus</td>
<td>183</td>
<td>155</td>
<td>-18%</td>
</tr>
<tr>
<td>Stoneham</td>
<td>407</td>
<td>417</td>
<td>0.2%</td>
</tr>
</tbody>
</table>

Table 6: Comparison of Outpatient Ambulatory Visits by Division Physicians at Affiliated Units: Fiscal Year 2012 vs. 2013

<table>
<thead>
<tr>
<th>Ambulatory Clinics</th>
<th>Number of Visits Fiscal Year 2012</th>
<th>Number of Visits Fiscal Year 2013</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawrence Memorial</td>
<td>748</td>
<td>599</td>
<td>-25%</td>
</tr>
<tr>
<td>Melrose Wakefield</td>
<td>34</td>
<td>6</td>
<td>-466%</td>
</tr>
<tr>
<td>St. Elizabeth’s Medical Center</td>
<td>132</td>
<td>47</td>
<td>-181%</td>
</tr>
<tr>
<td>Reading</td>
<td>654</td>
<td>795</td>
<td>18%</td>
</tr>
</tbody>
</table>

Inpatient Program Descriptions

Nephrology Inpatient Services

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, continuous renal replacement therapy (CVVH and SCUF), and charcoal hemoperfusion. 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

Dr. Perrone is the Medical Director and all Division attending physicians also participate in the Tufts Medical Center Kidney Transplant Program. A relatively high proportion of kidney transplants derive from related or unrelated living donors. Tufts Medical Center is also an active participant in the UNOS Kidney Paired Donation Pilot 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 KBPC in the initial months following the transplant, thereafter at increasing intervals. The transplant team at Tufts Medical Center has conducted more than 1000 kidney transplants. In 2011, the kidney transplant program celebrated its 40th anniversary!

Inpatient Dialysis

Inpatient hemodialysis is performed in the Floating 7 inpatient dialysis unit and in Tufts Medical Center intensive care units. Drs. Perrone and Meyer share responsibility for the continuous renal replacement program.

DCI, the hospital's inpatient dialysis provider, assigns nurses to perform inpatient hemodialysis treatments and to oversee and facilitate continuous hemofiltration therapies performed in the intensive care units. Linda Courtemanche, RN manages the inpatient dialysis program, which she joined in 1986. The staff performs both pediatric and adult hemodialysis. The program is organized with particular attention to patient flow; most of the patients receiving hemodialysis treatment are also undergoing many other tightly scheduled tests and procedures. Response time for emergency hemodialysis after hours is 45 minutes; during the day, treatments can be initiated even more quickly.

Inpatient peritoneal dialysis is performed in intensive care units and on the North 7, an inpatient adult medicine ward, where the nursing staff are trained to perform peritoneal dialysis. Tufts Medical Center is the only hospital in Greater Boston with a floor on which the staff nurses are trained to perform peritoneal dialysis.
Continuous Renal Replacement Therapy

Dr. Perrone directs the continuous renal replacement therapies (e.g., continuous venovenous hemofiltration and slow continuous ultra filtration) program. These therapies support critically ill patients who have developed acute kidney injury as a complication of their underlying illnesses, other treatments, or surgery. Citrate regional anticoagulation has markedly improved the efficiency and efficacy of treatment and allowed its use in all intensive care units at Tufts Medical Center. Growing solid organ and bone marrow transplantation, cardiac surgery, and oncology programs will increase utilization of continuous renal replacement therapies.

Inpatient Volume

All volume numbers in Tables 7 and 8 are from the fiscal year October 2012 to September 2013, unless otherwise indicated. Inpatient activity at Tufts Medical Center and affiliated hospitals by Tufts Medical Center physicians are listed in Table 7. Table 8 lists inpatient treatments by DCI at Tufts Medical Center and Emerson Hospital.

Table 7: Comparison of Inpatient Activity: Fiscal Year 2012 vs. 2013

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2012</td>
<td>2013</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>8,828</td>
<td>9,154</td>
</tr>
<tr>
<td>Kidney transplants*</td>
<td>31</td>
<td>25</td>
</tr>
<tr>
<td>Days of CVVH and peritoneal dialysis treatments</td>
<td>828</td>
<td>587</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>214</td>
<td>482</td>
</tr>
<tr>
<td><strong>Emerson Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>995</td>
<td>1,163</td>
</tr>
<tr>
<td><strong>Kindred Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>337</td>
<td>609</td>
</tr>
<tr>
<td><strong>Lawrence Memorial Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>894</td>
<td>1,202</td>
</tr>
<tr>
<td><strong>Melrose Wakefield Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>1,962</td>
<td>1,992</td>
</tr>
<tr>
<td><strong>Whidden Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>129</td>
<td>242</td>
</tr>
<tr>
<td><strong>Winchester Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>88</td>
<td>137</td>
</tr>
</tbody>
</table>

*Calendar year 2013
Table 8: Comparison of DCI Inpatient Hemodialysis Treatments: Fiscal Year 2012 vs. 2013

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2012</td>
<td>2013</td>
</tr>
<tr>
<td>Tufts Medical Center: Inpatient hemodialysis treatments</td>
<td>2,617</td>
<td>2388</td>
</tr>
<tr>
<td>Emerson Hospital: Inpatient hemodialysis treatments</td>
<td>197</td>
<td>211</td>
</tr>
</tbody>
</table>

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, we had several attending physicians present 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. Please refer to Table 9 for a detailed listing of events.

Table 9: 2013 Community Service Events

<table>
<thead>
<tr>
<th>Type</th>
<th>Community</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Kidney Foundation’s KEEP on World Kidney Day</td>
<td>Boston</td>
<td>Roxbury YMCA</td>
</tr>
<tr>
<td>Tolvaptan in Autosomal Dominant Polycystic Kidney Disease PKD Foundation, New England Chapter,</td>
<td>PKD</td>
<td>Newton MA</td>
</tr>
<tr>
<td>Chinatown National Night Out BP screening</td>
<td>Chinatown</td>
<td>Tai Tung Village</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Boston MA</td>
</tr>
</tbody>
</table>
In addition to specific events, members of the Division participate in community service organizations and projects.

- Staff from DCI Ball Square Home Program in Somerville (aka team Mission Possible) participated in DCI’s Purpose Project and dedicated time to training nearby surrounding health care facilities about peritoneal dialysis. Patients had expressed concerns about their PD when admitted to local hospitals or when staying in nursing facilities; not many health care professionals are familiar with the procedures of PD. The DCI Somerville Home Program reached out to two nursing homes and three hospitals and hosted a large group of hospital staff for a hands-on PD training. The team also created binders for the trained units so they can have further reference and support for peritoneal dialysis treatment.

- In 2013, Division members along with their family and friends participated in both the annual NKF Boston Kidney Walk and the PKD Walk for a Cure.

**Patient Care Awards and Honors**

- DCI Ball Square won DCI’s 2013 Darwin Peterson Award for its home dialysis program. This annual award goes to the home dialysis program with the highest overall quality throughout DCI.

- DCI Boston, at Tufts Medical Center, was one of only 7% of DCI hemodialysis facilities to win the highest of DCI’s Star Awards, a 4 star award for having 1) many arteriovenous fistulae, 2) few central venous catheters, 3) high hemodialysis doses and 4) many hemoglobin values in the target range.
• DCI Ball Square received the 5-Diamond Award and DCI Boston the 4-Diamond Award from the 5-Diamond Patient Safety Program (http://www.5diamondpatientsafety.org/Home.aspx). The goal of the program, administered through the ESRD Networks, is to assist dialysis facilities to improve both staff and patient awareness of specific patient safety areas, promote patient safety values, and build a culture of patient safety in every dialysis facility.

• In the December 2013 issue of Boston Magazine, Drs. Levey, Meyer, Perrone, and Sarnak were recognized as Boston’s best nephrologists. Dr. Perrone has received this honor 4 years in a row and Drs. Levey and Sarnak for the last 3 years and Dr. Meyer for the last 2 years!

Research

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 also collaborate with domain experts to focus on the research areas of: chronic kidney disease, assessment of kidney function, aging, nutrition, dialysis and transplantation, progression, polycystic kidney disease, acute kidney injury, and hypertension.

**2013 New Research Grant Awards**

Table 10 lists the 3 new research grants received in 2013.
Table 10: New Research Grant Awards Received in 2013

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Award Source</th>
<th>Type of Award</th>
<th>Title</th>
<th>Study Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Levey</td>
<td>DCI</td>
<td>Foundation</td>
<td>Monitoring PD Adequacy Using Serum Levels of Endogenous Filtration Markers</td>
<td>3</td>
</tr>
<tr>
<td>Dr. Weiner</td>
<td>NIH</td>
<td>Federal Subcontract</td>
<td>Renal disease, kidney cancer, and metalworking fluid exposure in autoworkers</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NIH</td>
<td>Federal Subcontract</td>
<td>MIND the Kidneys</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Wright</td>
<td>NIH/NIDDK</td>
<td>Federal F32</td>
<td>Infections in Patients treated with Dialysis: Incidence, Risk Factors and Outcome</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Amount and Type of Research Grant Awards

Figure 1 and Table 11 demonstrate the increasing numbers and dollars of research grant awards received by Division members.

Figure 1: Division of Nephrology Research Grant Awards FY 2009-2013, by type
2 Division members hold a NIH-funded Clinical Research Career Development Grant (K23).

1 Division member holds a prestigious Midcareer Investigator Award In Patient-Oriented Research (K24) grant.

Table 11: Ongoing Research Grant Awards Received Prior to 2013

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Award Source</th>
<th>Type of Award</th>
<th>Title</th>
<th>Year of Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Drew</td>
<td>ASN</td>
<td>Fellowship</td>
<td>FGF-23, ADMA-cognitive impairment in HD</td>
<td>2012</td>
</tr>
<tr>
<td>Dr. Inker</td>
<td>Pharmalink</td>
<td>Clinical Trial</td>
<td>Proteinuria reduction in primary IgA nephropathy</td>
<td>2011</td>
</tr>
<tr>
<td>Dr. Levey</td>
<td>NIDDK</td>
<td>Federal T32</td>
<td>Epidemiology, Clinical Trials and Outcomes Research</td>
<td>1999</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Federal R01</td>
<td>Kidney Function, Aortic Stiffness and Aging</td>
<td>2010</td>
</tr>
<tr>
<td></td>
<td>NIDDK</td>
<td>Federal Subcontract</td>
<td>Aorta, Brain, and Kidney Structure and Function in the AGES-Reykjavik Study</td>
<td>2010</td>
</tr>
<tr>
<td></td>
<td>NIDDK</td>
<td>Federal Subcontract</td>
<td>Proteomic Approach to CKD Biomarker Discovery and Validation</td>
<td>2010</td>
</tr>
<tr>
<td></td>
<td>NIDDK</td>
<td>Federal</td>
<td>Folic Acid for Vascular Outcomes Reduction in Transplantation</td>
<td>2010</td>
</tr>
<tr>
<td></td>
<td>NIH</td>
<td>Federal R01</td>
<td>Markers for CKD in a multi-ethnic representative population with measured GFR</td>
<td>2011</td>
</tr>
<tr>
<td></td>
<td>NIH</td>
<td>Federal</td>
<td>Estimating GFR from a Panel of Endogenous Filtration Markers (Panel eGFR)</td>
<td>2012</td>
</tr>
<tr>
<td></td>
<td>NKF</td>
<td>Foundation Grant</td>
<td>GFR Decline as an Outcome for Clinical Trials in CKD</td>
<td>2012</td>
</tr>
<tr>
<td>Dr. Miskulin</td>
<td>DCI</td>
<td>Clinical Trial</td>
<td>Assessing the accuracies of an autoregulatory adequacy measure derived from the pulse oximeter pulse waveform and of the Crit-line device to predict fluid removal induced hypotensive events during hemodialysis</td>
<td>2012</td>
</tr>
<tr>
<td></td>
<td>NIDDK</td>
<td>Federal Subcontract</td>
<td>Blood Pressure in Dialysis</td>
<td>2010</td>
</tr>
<tr>
<td></td>
<td>NIH</td>
<td>Federal Subcontract</td>
<td>Pragmatic Trials in Maintenance Hemodialysis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DCI</td>
<td>Foundation</td>
<td>Decision Support for Anemia Management in HD</td>
<td>2008</td>
</tr>
</tbody>
</table>

Table 11 is continued on the next page.
<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Award Source</th>
<th>Type of Award</th>
<th>Title</th>
<th>Year of Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Miskulin</td>
<td>DCI Foundation</td>
<td>Pilot Study for a Future Randomized Clinical Trial</td>
<td>2008</td>
<td></td>
</tr>
<tr>
<td>Dr. Perrone</td>
<td>NIH Federal Subcontract</td>
<td>Comparative Effective Studies of Strategies to Improve Patient Outcome In ESRD</td>
<td>2010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Otsuka Clinical Trial</td>
<td>A multi-center, longitudinal, observational study of patients with ADPKD to establish the rate, characteristics and determinants of disease progression</td>
<td>2012</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIDDK Federal U01</td>
<td>PKD Clinical Trials Network</td>
<td>2002</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Otsuka Clinical Trial</td>
<td>A multi-center, parallel-group, randomized, double-blind, placebo-masked, multiple dose trial of modified-release and immediate-release (IR) Tolvaptan in ADPKD</td>
<td>2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Otsuka Clinical Trial</td>
<td>Multi-center, open-label, extension study to evaluate the long-term efficacy and safety of Oral Tolvaptan Tablet Regimens in ADPKD</td>
<td>2011</td>
<td></td>
</tr>
<tr>
<td>Dr. Rao</td>
<td>DCI Paul Teschan Research Award</td>
<td>Gastrointestinal Microbiota, Systemic Infection and Inflammation in Dialysis Patients</td>
<td>2010</td>
<td></td>
</tr>
<tr>
<td>Dr. Sarnak</td>
<td>NIH/NIDDK Federal R01</td>
<td>Cognition and Dialysis</td>
<td>2008</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIH/NIDDK Federal K24</td>
<td>Chronic Kidney Disease, Vascular Disease and Aging</td>
<td>2007</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIH Federal R01</td>
<td>The Aging Kidney: Chronic Injury, Impaired Functions and Clinical Outcomes</td>
<td>2011</td>
<td></td>
</tr>
<tr>
<td>Dr. Weiner</td>
<td>NIH/NIDDK Federal K23</td>
<td>Kidney Disease, Stroke and Cognitive Impairment</td>
<td>2005</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIH Federal R01</td>
<td>Randomized Trial of Exercise Training on Cognitive and Physical Function in CKD</td>
<td>2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Keryx Clinical Trial</td>
<td>A Three-Period, 58-Week Safety and Efficacy Trial of KRX-0502 (ferric citrate) in Patients with End-Stage Renal Disease (ESRD) on Dialysis</td>
<td>2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIH Federal Subcontract</td>
<td>SPRINT Main Phase II</td>
<td>2010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIH Federal Subcontract</td>
<td>Pulse Wave Velocity and Central Aortic Pressure Outcomes in SPRINT</td>
<td>2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DCI Foundation</td>
<td>Safety and effects of supplementation with ergocalciferol</td>
<td>2012</td>
<td></td>
</tr>
</tbody>
</table>
2013 Publications

A total of 70 print publications and 12 epublications were authored and/or co-authored by Division members in 2013. An asterisk beside a name indicates a current trainee as an author.

2013 Print Publications

38. Okusa MD, Jaber BL, Doran P, Duranteau J, Yang L, Murray PT, Mehta RL, Ince C.


2013 Division Epublications


Education

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. Table 13 and Table 14 list ongoing teaching initiatives by Division members.

2013 Education Initiatives

- In 2013, Dr. Rao became the Course Director for Cardiovascular Epidemiology at TUSM.

- Division members, led by Drs. Weiner and Gilbert, planned and conducted a Home Dialysis Course for Boston-area clinicians. DCI sponsored and TUSM hosted the multi-week program which featured speakers from many local institutions.

Visiting Professors

The Division had 7 visiting professors this year. Table 12 lists the professors and their presentation topics.

Table 12: 2013 Visiting Professors

<table>
<thead>
<tr>
<th>Visiting Professor</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Sarah Booth</td>
<td>Vitamin K and CKD</td>
</tr>
<tr>
<td>HNRCA, Tufts University</td>
<td></td>
</tr>
<tr>
<td>Dr. Steve Guest</td>
<td>Urgent Start Peritoneal Dialysis</td>
</tr>
<tr>
<td>Dr. Mark Parker</td>
<td>Recruiting the next generation of nephrologists.</td>
</tr>
<tr>
<td>Maine Medical Center</td>
<td></td>
</tr>
<tr>
<td>Dr. John Moran</td>
<td>Real-time Monitoring of Cardiovascular Status During Hemodialysis</td>
</tr>
<tr>
<td>Vice President for Clinical Affairs</td>
<td></td>
</tr>
<tr>
<td>DaVita, Inc.</td>
<td></td>
</tr>
<tr>
<td>Dr. Craig Gordon</td>
<td>Challenges of hepatitis C treatment in ESRD</td>
</tr>
<tr>
<td>Boston Medical Center</td>
<td></td>
</tr>
<tr>
<td>Dr. Josef Coresh</td>
<td>Rightsizing CKD Research in the Consortium Era</td>
</tr>
<tr>
<td>G.W. Comstock Professor of Epidemiology, Biostatistics &amp; Medicine</td>
<td></td>
</tr>
<tr>
<td>Johns Hopkins University</td>
<td></td>
</tr>
<tr>
<td>Dr. Bryan Kestenbaum</td>
<td>FGF-23: link in the kidney-cardiovascular disease connection</td>
</tr>
<tr>
<td>University of Washington</td>
<td></td>
</tr>
</tbody>
</table>
Division Members teach at 5 schools including:

Tufts University School of Medicine; Tufts University School of Dental Medicine; Friedman School of Nutrition Science and Policy; Sackler School of Graduate Biomedical Sciences; and The Francis Stern Nutrition Center at Tufts Medical Center

### Continuing Education Initiatives

**Table 13: Longstanding Graduate-level Teaching Initiatives by Division Members**

<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</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>Cardiovascular Epidemiology</td>
<td>Dr. Rao</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. Meyer and Weiner</td>
</tr>
<tr>
<td>Friedman School of Nutrition Science and Policy</td>
<td>Lectures on kidney disease, hypertension and nephrology</td>
<td>Drs. Balakrishnan, Meyer, and Weiner</td>
</tr>
<tr>
<td>Sackler School</td>
<td>Renal Pharmacology</td>
<td>Dr. Gilbert</td>
</tr>
<tr>
<td>The Francis Stern Nutrition Center at Tufts Medical Center</td>
<td>4-week experiential rotation in DCI Boston dialysis unit</td>
<td>Poonhar Poon, RD</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 breath and depth of clinical experiences with rotations at Tufts Medical Center and SEMC.

Over the past 15 years, approximately 42% of the 33 graduates of the fellowship program have continued in full-time academic positions. Another 27% 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, 128 applications to the clinical fellowship program were reviewed for 2 open positions available in 2014. Table 15 and Table 16 list graduating and current clinical fellows.

Table 14: 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. Levey, Balakrishnan &amp; Sarnak</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 Attendings</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>

Table 15: Graduated Clinical Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keith Bartolomei, MD</td>
<td>2011-2013</td>
<td>Private Practice</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Providence RI</td>
</tr>
</tbody>
</table>
Research Fellowship Training

Continuing Research Fellowship Training Initiatives

The Division offers training in clinical research, under the direction of Drs. Levey and Sarnak at Tufts Medical Center or under the direction of Drs. Jaber and Madias at SEMC.

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;

2. Independent Study - a hypothesis-based research project supervised by a nephrologist mentor and a research team of faculty with expertise in other disciplines;

Table 16: Current Clinical Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Previous Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nintender Goyal, MD</td>
<td>2013-2015</td>
<td>Resident Carney Hospital Boston MA</td>
</tr>
<tr>
<td>Alin John, MD</td>
<td>2013-2014</td>
<td>Nephrology Research Fellow Tufts Medical Center Boston MA</td>
</tr>
<tr>
<td>Amanda Leonberg-Yoo, MD</td>
<td>2013-2014</td>
<td>Resident Tufts Medical Center Boston MA</td>
</tr>
<tr>
<td>Malar Ramasamy, MD</td>
<td>2012-2014</td>
<td>Internist Carney Hospital Boston, MA</td>
</tr>
<tr>
<td>Roshan Sher Ali, MD</td>
<td>2012-2014</td>
<td>Hospitalist Northwestern Memorial Hospital Evanston, IL</td>
</tr>
</tbody>
</table>
3. **Training in Presentation** - participation in conferences and seminars designed to improve trainees' oral and written presentations.

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

**Research Fellowship Program Statistics**

We have 5 current research fellows in training. We received 42 applications in 2013 for 2 open research fellowship positions in 2014. See Table 17 and Table 18 for listings of graduated and current research fellows.

**Table 17: Graduated Research Fellows**

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kamran Shaffi, MD, MS</td>
<td>2011-2013</td>
<td>Clinician Educator, Assistant Professor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>University of New Mexico</td>
</tr>
</tbody>
</table>

**Table 18: 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>Osama Amro, MD</td>
<td>Resident</td>
<td>Ronald D. Perrone, MD</td>
<td>NIH T32</td>
</tr>
<tr>
<td></td>
<td>St. Vincent Charity Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cleveland OH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>David Drew, MD</td>
<td>Resident</td>
<td>Mark J. Sarnak, MD, MS</td>
<td>NIH T32</td>
</tr>
<tr>
<td></td>
<td>Tufts Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boston MA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pranav Garimella, MD, MPH</td>
<td>Nephrology Clinical Fellow</td>
<td>Mark J. Sarnak, MD, MS</td>
<td>NIH T32</td>
</tr>
<tr>
<td></td>
<td>Tufts Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boston MA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Katherine Michener</td>
<td>Resident</td>
<td>Andrew S. Levey, MD</td>
<td>NIH T32</td>
</tr>
<tr>
<td></td>
<td>Tufts Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boston MA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seth Wright, MD</td>
<td>Nephrology Clinical Fellow</td>
<td>Daniel E. Weiner, MD, MS</td>
<td>NIH T32</td>
</tr>
<tr>
<td></td>
<td>Beth-Isreal Deaconess</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boston MA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Continuing Medical Education**

New Medical Education Initiatives

- Starting in 2013, Dr. Gilbert is a contributor to the Kidney Self-Assessment Program, Inaugural Edition.

Continuing Medical Education Initiatives

Table 19 lists the continuing education presentations given by Division faculty in 2013. 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: 2013 Local, National, and International Presentations by Division Faculty

**LOCAL/REGIONAL PRESENTATIONS**

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Presentation</th>
<th>Institution</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Gilbert</td>
<td>An evolving approach to hypertension</td>
<td>Medical Grand Rounds</td>
<td>Maine Medical Center, Portland ME</td>
</tr>
<tr>
<td>Dr. Inker</td>
<td>Chronic kidney disease: criticisms and challenges and responses focus on the elderly</td>
<td>Brown University</td>
<td>Providence RI</td>
</tr>
<tr>
<td>Dr. Levey</td>
<td>Invited Lecturer</td>
<td>Geisinger Medical Center</td>
<td>Danville PA</td>
</tr>
<tr>
<td>Dr. Madias</td>
<td>Invited Lecturer</td>
<td>Massachusetts General Hospital-Brigham and Women’s Hospital Combined Renal Grand Rounds</td>
<td>Boston MA</td>
</tr>
<tr>
<td></td>
<td>Invited Lecturer</td>
<td>Medical Grand Rounds</td>
<td>Tufts Medical Center, Boston MA</td>
</tr>
<tr>
<td></td>
<td>Invited Lecturer</td>
<td>Endocrine Grand Rounds</td>
<td>Beth Israel Deaconess Medical Center, Boston MA</td>
</tr>
</tbody>
</table>

Table 19 is continued on the next page.
<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Perrone</td>
<td>Autosomal Dominant Polycystic Kidney Disease (ADPKD): Lessons Learned, New Directions, Therapeutic Strategies Medical Grand Rounds, Tufts Medical Center Boston, MA</td>
</tr>
<tr>
<td>Dr. Rao</td>
<td>Antibiotic spacers for chronic prosthetic joint infections – do we understand the risks? Baystate Medical Center Research Conference Springfield MA Childhood Enteric Infections – A Risk Factor for Chronic Kidney Disease in India? Global Health Seminar Series, Tufts University School of Medicine Boston MA</td>
</tr>
<tr>
<td>Dr. Sarnak</td>
<td>Aging and changes in kidney function Human Nutrition Center on Aging Rounds Tufts University Boston MA Cognitive function in chronic kidney disease Division of Nephrology Rounds Yale University New Haven CT</td>
</tr>
<tr>
<td>Dr. Sarnak</td>
<td>Cardiorenal syndrome: Pathophysiology, treatment and coordination of care. UMass Medical Center Worcester MA Challenging renal cases for the boards Harvard-Brigham Nephrology Course Boston MA</td>
</tr>
<tr>
<td>Dr. Weiner</td>
<td>Medical Grand Rounds: Cardiovascular disease in chronic kidney disease Brockton Hospital Brockton MA</td>
</tr>
</tbody>
</table>

**NATIONAL PRESENTATIONS**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Gilbert</td>
<td>Urinary acidification: mechanisms, abnormalities, and therapies American Society of Nephrology Renal Week 2013 Atlanta GA Subspecializing a subspecialty Training Program Directors Retreat Chicago IL</td>
</tr>
<tr>
<td>Dr. Inker</td>
<td>CKD guideline implementation strategy meeting National Kidney Foundation New York NY</td>
</tr>
</tbody>
</table>
Table 19 is continued on the next page.

Table 19 Continued: 2013 Local, National, and International Presentations by Division Faculty

Dr. Inker  Implementing the new KDIGO guidelines: the lab’s changing role in CKD testing
American Society of Nephrology Renal Week
Atlanta GA

Dr. Madias  2013, Course Chairman and Lecturer
Early Program on Diagnosis and Management of Disorders of Acid-Base, Fluid, and Electrolyte Balance
American Society of Nephrology Renal Week
Atlanta GA

Dr. Meyer  Using patient-reported outcomes to advance quality assessment and performance improvement
National Kidney Foundation Spring Clinical Meeting
Orlando FL

Quality and safety
2013 Dialysis Facility Medical Directorship Course
American Society of Nephrology Renal Week
Atlanta GA

Dr. Perrone  GFR decline as an endpoint for clinical trials. Update on the NKF/FDA workshop
Nephrology Grand Rounds, Mayo Clinic
Rochester MN

The PKD Outcomes Consortium: efforts to establish TKV as a regulatory endpoint for intervention trials in ADPKD
Nephrology Research Forum, Mayo Clinic
Rochester MN

Updates in ADPKD clinical trials and Outcomes
Renal Research Conference, University of Chicago
Chicago IL

The Tolvaptan ADPKD Story
ADPKD Consensus Conference
Children’s National Medical Center
Washington DC

Dr. Richardson  Assessment questions: recall-type and case-based item writing and analysis
Drake University School of Pharmacy Faculty Development Conference
Des Moines IA

Dr. Sarnak  Nephrology Grand Rounds
Cleveland Clinic
Cleveland OH

Dr. Weiner  Moderator
The evolving Quality Incentive Program
American Society of Nephrology Renal Week 2013
Atlanta GA
Table 19 Continued: 2013 Local, National, and International Presentations by Division Faculty

Dr. Weiner  Moderator
CKD and cardiovascular disease
American Society of Nephrology Renal Week 2013
Atlanta GA

Research Communication: albuminuria and CVD, kidney failure and death in stable kidney transplant recipients
American Society of Nephrology Renal Week 2013
Atlanta GA

Uric acid and the kidney
National Kidney Foundation Spring Clinical Meeting
Orlando FL

Dialysis, healthcare reforms and quality indicators
National Kidney Foundation Spring Clinical Meeting
Orlando FL

Blood pressure management to prevent stroke and dementia in CKD
National Kidney Foundation Spring Clinical Meeting
Orlando FL

INTERNATIONAL PRESENTATIONS

Dr. Inker  Determinants of measured GFR
Reykjavik Iceland

Estimated GFR and CKD prevalence and complications
Reykjavik Iceland

Drs. Inker and Levey  Improving GFR estimates based on cystatin C for International use
International Federation of Clinical Chemistry
Lund Sweden

Dr. Levey  Invited Lecturer
World Congress of Nephrology
Hong Kong China

Invited Lecturer
The First Affiliated Hospital Sun Yat-Sen University
Guangzhou China

Invited Lecturer
Nanfang Hospital Southern Medical University
Guangzhou China

Invited Lecturer
University of British Columbia
Vancouver Canada
Table 19 is continued on the next page.

Table 19 Continued: 2013 Local, National, and International Presentations by Division Faculty

Dr. Levey  
Visiting Professor  
University of Alberta  
Edmonton and Calgary Canada

Invited Lecturer  
University of Manitoba  
Winnipeg Canada

Visiting Professor  
Oxford University  
Oxford England

Dr. Rao  
Vascular access monitoring and surveillance  
Recent Advances in Glomerular Disease  
Christian Medical College & Hospital  
Vellore India

Long term complications in hemodialysis patients  
St John’s Medical College  
Bangalore India

Visiting Professor  
Madras Medical College  
Chennai India

The promise of biomarkers in nephrology  
The Bhasker Reddy Oration  
Nizam’s Institute of Medical Sciences  
Hyderabad India

Controversies in acute kidney injury  
Plenary Speaker  
Southern Chapter of the Indian Society of Nephrology, Annual Conference

Dr. Sarnak  
Invited Presentation  
Shaare Zedek Medical Center  
Jerusalem Israel

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**Editorial Appointments**

**American Journal of Kidney Diseases**

The Division houses the editorial office of the *American Journal of Kidney Diseases* (AJKD), the official journal of the NKF, and division members lead a multi-institution effort to continue to enhance AJKD’s position as the preeminent clinical journal in nephrology. The first issue of AJKD compiled by Tufts Medical Center appeared in January 2007; in January 2012, the Tufts-based team began its second five-year term as the site of the editorial office.
Dr. Levey is the Editor-in-Chief and Dr. Weiner serves as the Deputy Editor. Other Tufts Medical Center–based editors of AJKD include Drs. Balakrishnan and Gilbert and Mr. Tighiouart. The Editorial Board includes five additional Editors affiliated with other hospitals, as well as 100+ editorial board members worldwide, including Dr. Harrington, Dean Emeritus of the Tufts School of Medicine.

The editorial office is staffed by Nijsje Dorman (Managing Editor), Elizabeth Bury (Associate Managing Editor), Emily Fay (Editorial Assistant), and Barbara Saper (Editorial Office Associate). The editorial office is located on the first floor of the Traders Building at 35 Kneeland Street.

Continuing a trend of increasing manuscript submissions, AJKD received just under 1,600 submissions in the 2013 operating year, with approximately 15% of original research articles accepted for publication. According to the 2013 Journal Citation Reports, published by Thomson Reuters, the 2012 impact factor for AJKD is 5.294, making it the highest-ranked journal focusing on clinical nephrology.

In the 2013 operating year, AJKD continued to expand its digital offerings, increasing the reach and relevance of journal content. The journal’s official blog celebrated its 300th post, office staff set up a Google+ page (in addition to Twitter and Facebook feeds), and an iPad app launched to offer seamless access to journal articles through Apple’s Newsstand.

The 2012 operating year also saw the publication of a record 4 commentaries from KDOQI (the NKF’s Kidney Disease Outcomes Quality Initiative) on clinical practice guidelines, covering anemia, glomerulonephritis, management of blood pressure in CKD, and acute kidney injury. These documents give readers in the United States expert guidance on implementation of best-practice guidelines for care of patients with kidney disease.

Finally, AJKD continues to be a strong advocate of World Kidney Day and associated disease awareness activities. The March 2013 issue contained an editorial from the World Kidney Day initiative highlighting acute kidney injury as a global health problem. In a supplement to the April issue, the editors published articles arising from the final annual report of the NKF’s Kidney Early Evaluation Program (KEEP), an initiative aimed at screening individuals at risk for CKD.
Other Editorial Board Appointments

In addition to their responsibility for editorship of *American Journal of Kidney Diseases*, members of the Division serve on other editorial boards.

- Dr. **Jaber** is a member of the *Nephron Clinical Practice* editorial board.

- Dr. **Madias** is a member of several editorial boards including *Hippokratia, Hellenic Medicine, Kidney: A current survey of world literature, International Angiology,* and *Arterial Hypertension*.

- In 2013, Dr. **Sarnak** completed his service as a member of the Editorial Board for the *Annals of Internal Medicine*.

- Drs. **Gilbert** and **Weiner** are the Editors of the newly published *Primer on Kidney Diseases 6th Edition*.

2013 Education Awards and Honors

- Since 2012, the Tufts Medical Center House Staff rated the Renal Ward Service as the best inpatient educational experience.

- Drs. **Gilbert** and **Sarnak** received notable teaching citations from TUSM students on the Medicine Clerkship.

- Dr. **Gilbert** received several education awards. The 1\textsuperscript{st} and 2\textsuperscript{nd} year medical students ranked him in the top 10\% of all TUSM lecturers and the Class of 2013 Citation for Excellence in Teaching (for the 10\textsuperscript{th} year in a row).
Dr. Levey received the Distinguished Alumnus Award from the Alumni Association at Boston University School of Medicine. This award is given in recognition of distinguished clinical, teaching and research careers of alumni or in recognition of their contribution to the betterment of the lives of others.

Public Policy

Continuing Policy Initiatives

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 Quality Management 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. The team’s numerous current projects include development of decision support tools for treatment of chronic kidney disease mineral bone disorder in end-stage renal disease, and the implementation of an interface between hemodialysis machines and the information system.

DCI Outcomes Monitoring Program

Dr. Richardson directs the corporate-wide DCI Outcomes Monitoring Program, which has been in existence 20 years! The program has two facets, one is the use of patient-reported outcomes using patient-based surveys to improve care, and the other is the collection of high-quality comorbidity data. Health-related quality of life is assessed using the SF-36+24 or the KDQOL-36 questionnaire. Dr. Richardson and her staff work with members of the Interdisciplinary Team to incorporate the results of the health-related quality of life surveys into patient care and quality improvement initiatives throughout DCI’s network of dialysis facilities. Patient experience is evaluation through the CMS-mandated ICH CAHPS survey and internally through a patient satisfaction questionnaire. Data are collected from all DCI chronic dialysis units. Dr. Richardson is leading DCI in its patient experience initiatives.

Dr. Miskulin leads the Comorbidity Assessment Program, as part of the Outcomes
Monitoring Program, in DCI and to examine various issues that affect dialysis patient outcomes. She also works with the DCI Research Department to review and develop new studies to implement in DCI dialysis units and is the medical monitor for the Safety and Effects of Supplementation with Ergocalciferol on Erythropoietin Dosing in Hemodialysis Patients, A Randomized Trial. Alice Martin, RN assists Dr. Miskulin with projects in the Comorbidity Assessment Program. Ms. Martin is also a DCI Project Manager with the DCI Research Department and is involved with various projects including training and supporting DCI clinical research coordinators in implementation of clinical trials.

**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.

**Polycystic Disease Outcomes Consortium**

In 2009, Dr. Perrone was appointed as the Clinical Lead of the Polycystic Disease Outcomes Consortium. The goal of the Consortium is to establish a polycystic kidney disease clinical database. This appointment was the culmination of several years of effort. In 2007, Dr. Perrone was appointed as Chairman of the Steering Committee for the Clinical Trial Endpoints and Therapies in Polycystic Kidney Disease workshop jointly sponsored by the FDA and the PKD Foundation. As an extension of this workshop, Dr. Perrone chaired the 2008 Polycystic Kidney Disease Database Consortium meeting with the FDA and representatives from the pharmaceutical industry and academic institutions. Dr. Perrone continues to work with the FDA, the PKD foundation, the Clinical Data Interchange Standards Consortium (CDISC), and The Critical Path Institute (C-PATH). These efforts are directed toward the ultimate acceptance, by the FDA, of total kidney volume as a surrogate endpoint for clinical trials in polycystic kidney disease.
Philanthropic Support of the Division

Continuing Philanthropic Initiatives

The 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 the Chief of the Division of Nephrology, with an initial goal to provide direct support to kidney patients, whether they are in the Kidney Transplant Program; receiving dialysis through the independent Dialysis Clinic, Inc. (DCI) or another dialysis provider; or receiving any type of treatment for kidney disease. A committee comprised of Dr. Perrone, Kathleen Murray, MSW (dialysis social worker), Katie Saunders, MSW (transplant social worker), and Linda Mazzola, RN (pediatric nephrology nurse) has the discretion to easily meet patient needs based on the Inker Family Fund criteria. Funds are available to provide emergency support to patients with kidney disease for which there are no other sources of support.

“Its terrific to have this fund available to help our patients—no delays, no bureaucracy, and almost immediate resolution of the patient request.”

Dr. Perrone

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 Kassel
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. Guinevere 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

“I can’t imagine not having it! In the past few months alone I have used it for deserving people who would not qualify for any other social programs or assistance. They just needed a little help.”

Deb Basler
Transplant Coordinator
• 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

2013 Inker Family Fund Updates

We are grateful for the many donations to the Inker Family Fund in 2013. This year donations were in memory of Robert Indelicato, a long-term patient cared for by Division members and also in honor of Dr. Weiner.

Individual Donors
• Mr. Donald J. Agnetta and Ms. Cynthia Plumb
• Mr. Craig P. Baskin
• Mr. and Mrs. David L. Bent
• Mr. and Mrs. Joseph P. Canavan
• Mr. and Mrs. Anthony F. Delapa
• Ms. Denise Dorman
• Mr. and Mrs. Anthony R. Flammia
• Ms. Sandra Hernandez
• Mr. Peter J. Hoy
• Mrs. Anne Indelicato
• Dr. and Mrs. Leonard H. Inker
• Dr. Lesley Inker and Mr. Benjamin L. Inker
• Mr. and Mrs. Vincent S. Joyce
• Mr. and Mrs. William J. Kane
• Mr. and Mrs. Douglas J. Keating
• Dr. Andrew S. Levey and Dr. Roberta Falke
• Ms. Mary Maker

“This fund has been such a blessing to our dialysis unit. It has really made a difference in the lives for so many of our patients who are struggling. They are indeed very thankful.”

Kathy Murray, MSW
Dialysis Social Worker
Ms. Frances E. McKinnon  
Mr. and Mrs. William J. McLean  
Dr. Klemens Meyer and Dr. Laura Perlo Meyer  
Dr. Dana Miskulin  
Mr. and Mrs. Leonard G. Nigro  
Mr. and Mrs. Daniel K. O'Brien  
Dr. Ronald D. Perrone and Ms. Diane Price  
Dr. Madhumathi Rao  
Dr. Mark J. Sarnak and Dr. Flora Sam  
Mr. and Mrs. Thomas J. Schmidt  
Mr. and Mrs. Paul L. Sieswerda  
Ms. Alanna Stevens  
Mr. and Mrs. Howard Stevens  
Mr. Coleman F. Wallace and Ms. Carol A. Jameson  
Dr. Daniel Weiner and Ms. Kerri Scharr  
Ms. Elizabeth Wenger

- Basic necessities such as grocery store gift cards, utility payments, coats and shoes, medical and insurance copayments have been provided by the Inker Family Fund in 2013.

The Inker Fund has made a dramatic difference in the quality of life of patients who have benefited from the fund. The ability to use the fund in a variety of flexible ways has allowed us to respond to patients' needs in a way that we have not been able to respond to in the past.

Dialysis nurse

Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine Endowed Chair in Nephrology at Tufts University School of Medicine and Tufts Medical Center

The Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine Endowed Chair in Nephrology at Tufts University School of Medicine and Tufts Medical Center was established in 2001 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 has always entertained the Ross and Friedman families and friends.

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

2013 Friedman Fund Updates

• In 2013, the Friedman Foundation held its 6th Annual Gerald J. Friedman Fellows Symposium on Nutrition, Diabetes and Human Health at the Gerald J. Friedman Diabetes Institute at Beth Israel Medical Center, NYC. Several Friedman School faculty and students were took part in the event

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

**2013 Schwartz Fund Updates**

In 2013, we were very appreciative to receive new gifts from the following:

- Ms. Susan Blakeman
- Ms. Christine Bohenko
- Mr. and Mrs. Paul Carlson
- Ms. Gloria J. Clark
- Ms. Patricia A. Cole and Ms. Margaret A. Cole
- Mr. and Mrs. Robert Driscoll
- Mr. Paul Franklin
- Dr. and Mrs. Howard B. Garfinkel
• Ms. Margaret Geist
• Ms. Patricia S. Lewis
• Ms. Janet Morrison
• Ms. Dolores Murphy and Ms. Christine B. Coyle
• Mr. Thomas L. P. O'Donnell
• Mr. Corey Powderly
• The Sands Family Foundation
• Ms. Gertrude M. Simon
• Mr. Nicholas J. Topitzes
• Mr. and Mrs. Craig L. Zurawski

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, has played a vital role in Tufts Medical Center’s Division of Nephrology. Widely known as a gifted nephrologist who has 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 holds 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:

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

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

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

4\textsuperscript{th} 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  
\textit{Guidelines for the Management of Kidney Transplant Patients}

5\textsuperscript{th} 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  
\textit{Kidney Disease as a Public Health Problem: Problems, Progress, and Prospects}

6\textsuperscript{th} Annual John T. Harrington Grand Rounds—2012  
Adeera Levin, MD Visiting Professor  
Staff nephrologist at St. Paul’s Hospital  
Professor at the University of British Columbia in Vancouver, British Columbia.  
\textit{Global Burden of CKD: Challenges and Opportunities.
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

2013 Diddy Seybolt Fund Updates

- In 2013, proceeds from the Diddy Seybolt Fund were used for a variety of educational purposes for dialysis clinic staff. Poon Poohar, RD attended a dietary conference and CPR training equipment was purchased to maintain the CPR certification status for the patient care technicians.

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
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, please designate that you would like your contribution to support that Fund. You can make your contribution to Tufts University School of Medicine online at https://www.alumnicommunications.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 or mailed to:

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