William B. Schwartz Division of Nephrology

2016 Annual Report

We dedicate this year’s report to our communications team, Megan Grobert and Michelle Richardson.
# Table of Contents

**Message from the Chief** .................................................................................................................. 5

**Division Family Tree** ................................................................................................................... 7

**In Memorium** .................................................................................................................................. 8

**Andrew S. Levey’s AAP Induction** ................................................................................................. 9

**Tufts Medical Center True Blue Awards** ...................................................................................... 10

**AJKD Farewell** ............................................................................................................................... 11

**Welcoming New Staff and Fellows** ............................................................................................... 12

**Administration** .............................................................................................................................. 13

  - Location ........................................................................................................................................ 14
  - Staffing ......................................................................................................................................... 15
  - 2016 Faculty and Staff Changes .................................................................................................. 24
  - Service ........................................................................................................................................ 25
    - Service to Tufts Medical Center ............................................................................................... 25
    - Service to TUSM/Sackler School of Graduate Biomedical Sciences .................................... 25
    - Service to Professional Organizations .................................................................................... 25
  - 2016 Administrative Awards and Honors .................................................................................... 26

**Patient Care** .................................................................................................................................... 27

  - 2016 Patient Care Initiatives ....................................................................................................... 28
  - Continuing Clinical Initiatives .................................................................................................... 28
    - Outpatient Program Descriptions ............................................................................................ 30
    - Outpatient Volume .................................................................................................................. 32
    - Inpatient Program Descriptions ................................................................................................ 32
    - Inpatient Volume ...................................................................................................................... 33
  - Division Quality Improvement ..................................................................................................... 34
  - Community Service/Patient Education ....................................................................................... 34
  - 2016 Patient Care Awards and Honors ...................................................................................... 35

**Research** ........................................................................................................................................ 37

  - 2016 New Research Grant Awards ............................................................................................. 38
  - Total Amount and Type of Research Grant Awards .................................................................... 39
  - 2016 Division Publications ......................................................................................................... 41
  - 2016 Research Awards and Honors ............................................................................................. 48

**Education** ....................................................................................................................................... 50

  - 2016 Education Initiatives .......................................................................................................... 51
  - Continuing Education Initiatives ................................................................................................ 52
    - Fellowship Programs .................................................................................................................. 53
      - Clinical Fellowship Training .................................................................................................. 53
      - Research Fellowship Training ............................................................................................... 53
  - Continuing Medical Education .................................................................................................... 54
  - 2016 Continuing Medical Education Initiatives ........................................................................ 54
  - Editorial Appointments ................................................................................................................ 57
    - *American Journal of Kidney Diseases* ................................................................................... 57
  - 2016 Education Awards and Honors ............................................................................................ 58

**Public Policy** .................................................................................................................................. 59

  - 2016 Policy Initiative Accomplishments ...................................................................................... 60
  - Continuing Policy Initiatives ....................................................................................................... 60
    - ASN Public Policy Board ......................................................................................................... 60
    - Chronic Kidney Disease in Nicaragua ...................................................................................... 60
    - DCI Information Systems .......................................................................................................... 60
    - DCI Outcomes Monitoring Program ........................................................................................ 60
    - National Kidney Disease Education Program .......................................................................... 60

**Philanthropic Support of the Division** .......................................................................................... 62

  - Continuing Philanthropic Initiatives ............................................................................................ 62
    - Driscoll Family Fund ................................................................................................................ 63
    - Inker Family Fund .................................................................................................................... 63
      - 2016 Inker Fund Updates ....................................................................................................... 65
    - Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine Endowed Chair in Nephrology at Tufts University
TABLES AND FIGURES

Tables

Table 1: On-site Locations of Division Activities at Tufts Medical Center ..............................................15
Table 2: Off-site Clinical Nephrology Activities Affiliated with Tufts Medical Center...............................15
Table 3: Outpatient Hemodialysis Units Affiliated with Tufts Medical Center ........................................30
Table 4: Comparison of Outpatient Activity: Fiscal Year 2015 vs. 2016 ..................................................32
Table 5: Comparison of Outpatient Dialysis Visits by Division Physicians at Affiliated Units: Fiscal Year 2015 vs. 2016 ......................................................................................................................32
Table 6: Comparison of Outpatient Ambulatory Visits by Division Physicians at Affiliated Clinics: Fiscal Year 2015 vs. 2016 ......................................................................................................................32
Table 7: Comparison of Inpatient Activity: Fiscal Year 2015 vs. 2016 ......................................................33
Table 8: Comparison of DCI Inpatient Dialysis Treatments: FY 2015 vs. 2016 .........................................34
Table 9: New Research Grant Awards Received in 2016 ........................................................................39
Table 10: Ongoing Research Grant Awards Received Prior to 2016 .........................................................39
Table 11: 2016 Visiting Professors and Visiting Faculty ............................................................................51
Table 12: Longstanding Graduate-level Teaching Initiatives by Division Members ...............................52
Table 13: Longstanding Postgraduate-level Teaching Initiatives by Division Members ............................52
Table 14: Graduated Clinical Fellows ........................................................................................................53
Table 15: Current Clinical Fellows ...........................................................................................................53
Table 16: Graduated Research Fellows ......................................................................................................54
Table 17: Current Research Fellows ........................................................................................................54
Table 18: 2016 Local, National & International Presentations by Division Faculty .................................54

Figures

Figure 1: Division of Nephrology Research Awards Fiscal Year 2012-2016, by type .................................38
MESSAGE FROM THE CHIEF

Welcome to our 15th Annual Report. This year’s report summarizes our endeavors in the areas of administration, patient care, research, education, and policy. 2016 was another good year for the Division.

We are pleased to welcome Drs. Nitender Goyal and Dhivya Sundaramurthy to the faculty. Nitender, a former clinical fellow and graduate of the transplant nephrology training program at the University of Minnesota, is our transplant nephrologist located on-site at Tufts Medical Center. During the coming year, Nitender will take over the responsibilities of medical director of the kidney transplant program from Dr. Perrone. Dhivya, a graduate of the nephrology program at Baystate Medical Center, works in our off-site practice as a hospitalist at Kindred Hospital. We were sad to say goodbye to Dr. Meredith Foster, but pleased that she will continue research in kidney disease epidemiology and clinical trials with Dr. Tazeen Jafar, adjunct faculty in Singapore. Staffing changes in the transplant program include Dr. Rohrer’s retirement, Dr. Cooper taking over as Chief and new arrivals Dr. Charles Strom, transplant surgeon, and Melissa Parente, transplant administrator. It was very fulfilling this year to welcome back former fellow, Dr. John Gill to give the 10th Annual John T. Harrington Grand Rounds on transplantation.

The Division continued to be recognized for excellent contributions. Our business administrator, Geneva Tucker, received the Tufts True Blue honor. Dr. Gilbert was promoted to Professor and received the TUSM Senior Class (M’16) Outstanding Teaching in the Pre-clerkship Years award. Dr. Lacson was promoted to Associate Professor. The International Society of Nephrology and the American Nephrologists of Indian Origin recognized Drs. Harrington, Madias, Perrone, Sarnak, Gilbert and me for contributions to education or research. Dr. Meyer received the Nancy Johnson Heart Award from DCI. In 2017, Dr. Perrone will receive the prestigious Lillian Jean Kaplan International Prize for Advancement of Polycystic Kidney Disease from the ISN at the World Congress of Nephrology in Mexico City!

Dr. Weiner was appointed as Chair of the ASN Quality, Patient Safety and Clinical Practice Committee and Dr. Gilbert will Chair the ASN Workforce and Training Committee. Both will be members of the ASN Executive Committee. Dr. Perrone saw the culmination of years of policy efforts with the publication of the FDA Qualification of Biomarker: Total Kidney Volume in Studies for Treatment of Autosomal Dominant Polycystic Kidney Disease Guidance for Industry. In addition, Dr. Perrone was the lead author and Dr. Miskulin was co-author on a publication that established the first data standard applicable to kidney disease. Research Fellow, Pranav Garimella received two poster awards at the American College of Cardiology meeting. For the 3rd year in a row, I was recognized as a highly influential researcher as determined by Thomson Reuters. Drs. Meyer, Gilbert, Inker and Weiner were recognized among Boston’s “Top Doctors” in the December 2016 issue of Boston Magazine.

Last year marked the 30th anniversary of the Division’s association with DCI. Clinical volume increased at Tufts Medical Center and was steady at our off-site practices. We are pleased that the hospitals and physician organization at Hallmark Health have joined with Tufts Medical Center in our parent organization, Wellforce, strengthening the relationship between our on-site and off-site practices. Research funding remains extremely competitive, with overall funding remaining level with last year, but I’m happy to announce that the Division received 5 new grants in 2016. In particular, we are delighted that
Dr. Sarnak received a prestigious 5-year grant from NIDDK one of the principal investigators in the CKD Biomarkers Consortium. We are also excited that Dr. Drew was awarded a Mentored Patient-Oriented Research Career Development Award (K23) from NIDDK to begin his research career as an independent investigator. Dr. Inker and I continue our participation in the CKD Biomarkers Consortium as coinvestigators with Dr. Josef Coresh at Johns Hopkins.

Additionally, publications were strong (72 print and 25 epubs). We are fortunate to be able to provide support for new research projects of fellows and junior faculty using Division philanthropic funds (pages 62-70) and DCI research funds. We continue to rely on funds from the Friedman endowed chair and thank the donors of charitable contributions to the Schwartz, Harrington, Inker and Driscoll Funds. We greatly appreciate these contributions, as the funds provide necessary assistance to continue our mission.

Our cover this year honors Dr. Richardson and Ms. Grobert for the completion of many years of work on what we hope will become a living history of the Division. You can access the collection of pages depicting images and descriptions of people, seminal ideas and lasting accomplishments since the founding of the Division by Dr. Schwartz in 1950 on the Division’s website at www.tuftsmedicalcenter.org/kidney/NephrologyHistory. In addition, Dr. Richardson has served as Director of the Division’s communications since 2005, including managing our website and our Facebook page. As usual, I thank her for preparing this year’s Annual Report.

Finally, I have announced my intention to step down as Chief of the Division this spring after more than 17 years. I am not retiring, however, and plan to remain a member of the Division, as I have been for more than 37 years. Stay tuned for more information on my successor and plans for the transition!

As always, 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 2017!

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

2016 Additions

The Division family continued to grow in 2016, with 1 more baby being born to Division members. In the past 10 years, 43 babies have joined the Division. The current count is boys—23; girls—20.

Lydia Eloise Drew born to David Drew and Daria Homenko
May 13th at 3:30pm
8 lbs 12 oz; 20.5"

Pictured here with proud big brother Oliver.
IN MEMORIUM

David C. Lowance, MD

David Lowance, MD, Nephrology Fellow from 1968-1970, passed away on September 9th from complications of Parkinson’s Disease. Dr. Lowance was a nephrologist at Piedmont Medical Center and was instrumental in recruiting John Whelchel to Atlanta and establishing Piedmont’s transplant program. He was the medical director for many of the program’s early years and set forth a vision of what the Piedmont transplant program could become. He was brilliant, funny and touched the lives of an incredible number of patients, staff and physicians.

Dr. Lowance’s full obituary may be found here: http://www.legacy.com/obituaries/atlanta/obituary.aspx?n=david-c-lowance&pid=181370484

Norman Bank, MD

Norman Bank, MD, Nephrology Fellow from 1957-1959, passed away on September 16th. Dr. Bank was the Chief of the Division of Nephrology at Montefiore Medical Center for more than two decades. After retiring, Dr. Bank led the development of a computer research data base for the Kidney and Urologic Foundation of America and began writing children’s books.

Dr. Bank’s full obituary may be found here: http://www.legacy.com/obituaries/nytimes/obituary.aspx?n=norman-bank&pid=181813728&eid=sp_shareobit
ANDREW S. LEVEY, MD—MEMBER OF THE ASSOCIATION OF AMERICAN PHYSICIANS

In April, Andy Levey, MD was inducted to the Association of American Physicians at their Annual Meeting. He was nominated by Anthony Monaco, PhD, MD, President of Tufts University and Jerry Kassirer, MD, Distinguished Professor Tufts University School of Medicine. He joins prior Division members Drs. Schwartz (inducted 1961), Cohen (inducted 1993) and Kassirer (inducted 1995) as members of this highly respected organization.

Membership in the prestigious Association of American Physicians is a great honor. Members have included Nobel laureates, and members of the National Academy of Science and the Institute of Medicine. The Association serves as a repository of the best medical minds and as a forum to promote friendship, to create and disseminate knowledge, and to provide role models for upcoming generations of physicians and medical scientists.

Andy Levey and Josef Coresh
Long-term collaborators and 2016 AAP Inductees

Roberta Falke, MD and Andy Levey, MD
TUFTS MC TRUE BLUE RECIPIENT: GENEVA TUCKER, MBA

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

Nomination from Andrew S. Levey, MD on behalf of the William B. Schwartz Division of Nephrology:

“After only four years as the Business Operations Manager in the William B. Schwartz Division of Nephrology, Geneva Tucker has become the backbone of our division. Going above and beyond is the norm for Geneva. She works tirelessly and enthusiastically, tackling any task and taking on additional responsibility whenever it is needed, all with a big smile and a positive attitude. She respects everyone she works with and encourages them to respect each other. Through ups and downs, she constantly and consistently displays her wonderful temperament—an excellent role model for us all.

“Geneva is extremely skilled in the administrative and financial roles required for success in her position. Her skill and creativity have allowed us to expand our practice and more importantly to improve access and quality of care for our patients and their families. These traits also enable her to easily gain the cooperation of others whom she must enlist in accomplishing the work. She is thorough, timely and persistent in her follow-up until the job is done. She often responds to questions within minutes, even when the message is sent well past normal working hours. Her can-do attitude makes her unflappable.

“Optimizing human resources is one of Geneva’s major strengths. She is extraordinary at hiring, mentoring staff and providing feedback for staff who are struggling to improve. In the past year, when we had several staff vacancies, Geneva worked with her usual calmness and efficiency. She helped develop and implement plans for coverage, ensuring that staff continued to feel valued, were not overworked and, most importantly, that patients were well cared for. Geneva’s confidence, human resource skills and calm demeanor stabilize changing situations and allow for smooth transitions.

“Geneva has not only had an impact on division operations but has embraced the long-held convention that our division is a family. She has instituted new traditions (e.g., annual multicultural pot luck) that help make each and every member of the division feel they belong—creating loyalty, improving working relationships and decreasing turnover.

“Geneva inspires us to be our best selves and to do our best regardless of the circumstances. She goes above and beyond in every aspect of her job. Her extraordinary performance furthers the division’s and the Medical Center’s rich tradition of high standards and service.”
Farewell to the American Journal of Kidney Diseases

Celebrating 10 years at Tufts Medical Center! See page 57 for details of its amazing 10-year run.
WELCOMING NEW STAFF AND FELLOWS

2016 brought many changes to the Transplant Program. Dr. Goyal was hired, Dr. Rohrer retired, Dr. Cooper became Chief Transplant Surgery, Dr. Charles Strom joined the group as a transplant surgeon and Melissa Parente joined as our new transplant administrator. We also had a new nephrologist, new PA and 3 new fellows join our practice.
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 off-site and on-site ambulatory, dialysis, and inpatient operations, with administrative and research operations located within the Tufts Medical Center campus. Drs. Cohen, Drew, Gilbert, Joseph, Meyer, Miskulin, Rao, Sundaramurthy, Weiner and Wright all provide care at our off-site affiliates. The location of activities performed both on-site at Tufts Medical Center and at off-site affiliates are listed in Table 1 and Table 2, respectively.
Table 1: On-site Locations of Division Activities at Tufts Medical Center

<table>
<thead>
<tr>
<th>Building</th>
<th>Floor</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kneeland Street</td>
<td>1st</td>
<td>American Journal of Kidney Diseases editorial offices</td>
</tr>
<tr>
<td></td>
<td>4th</td>
<td>Kidney and Blood Pressure Center (KBPC) and KBPC staff</td>
</tr>
<tr>
<td></td>
<td>5th</td>
<td>Outpatient Dialysis Services provided by DCI</td>
</tr>
<tr>
<td></td>
<td>5th and 6th</td>
<td>Division support operations and physician and research staff offices</td>
</tr>
<tr>
<td>Floating</td>
<td>7th</td>
<td>Inpatient dialysis services provided by DCI</td>
</tr>
<tr>
<td>North</td>
<td>7th</td>
<td>Primary location for inpatient ward service</td>
</tr>
</tbody>
</table>

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

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

**Staffing**

**Physician Staff**

Andrew S. Levey, MD, FNKF, Chief
Ronald D. Perrone, MD, FASN, FNKF, Associate Chief
Michael B. Cohen, MD
David A. Drew, MD, MS
Scott J. Gilbert, MD, FASN
Nitender Goyal, MD
Lesley A. Inker, MD, MS, FRCP(C)
Amy B. Kuhlik, MD
Alin A. Joseph, MD, MS
Eduardo Lacson, Jr., MD, MPH, FACP, FASN
Klemens B. Meyer, MD
Dana C. Miskulin, MD, MS, FRCP(C)
Monika Pilichowska, MD, PhD
Madhumathi Rao, MD, PhD, FRCP(E)
Mark J. Sarnak, MD, MS, FASN
Dhivya Sundaramurthy, MD
Daniel E. Weiner, MD, MS, FASN, FNKF
Seth Wright, MD

Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine
Assistant Professor of Medicine
Assistant Professor of Medicine
Professor of Medicine
Professor, Tisch College, Tufts University
Assistant Professor of Medicine
Associate Professor of Medicine
Assistant Professor of Medicine
Dean for Student Affairs, TUSM
Assistant Professor of Medicine
Associate Professor of Medicine
Professor of Medicine
Associate Professor of Medicine
Associate Professor of Pathology
Associate Professor of Medicine
Associate Professor, Department of Public Health and Community Medicine
Professor of Medicine
Instructor of Medicine
Associate Professor of Medicine
Assistant Professor of Medicine
Special and Scientific Staff
Michelle M. Richardson, PharmD, BCPS
Assistant Professor of Medicine

Associate Physician Staff
Bertrand L. Jaber, MD, MS, FASN, FNKF
Professor of Medicine
Vice Chair for Clinical Affairs
Department of Medicine
St. Elizabeth’s Medical Center

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Maurice S. Segal, MD Chair in Medicine
Physician, Division of Nephrology
Academic Dean of TUSM
St. Elizabeth’s Medical Center

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Professor of Medicine with Tenure
Transplant Fellowship Director
University of British Columbia and St. Paul’s Hospital
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Tazeen H. Jafar, MD, MPH, FNKF
Professor of Health Services and Systems Research
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Gregorio T. Obrador, MD, MPH
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Dean
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Professor of Medicine, Tufts University School of Medicine
President and CEO
Visterra Inc
Cambridge MA

Katrin Uhlig, MD, MS
Adjunct Associate Professor of Medicine
Senior Medical Director
Keryx Biopharmaceuticals
Boston, 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, Pratt Medical Group Nephrology and Hypertension, Concord, and Pratt Medical Group Nephrology at Mystic Medical Group, Medford
Krista Boisclair, MS  Research Administrator II

Faculty Descriptions

ANDREW S. LEVEY, MD

Dr. Levey is Dr. Gerald J. and Dorothy R. Friedman 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) and of cardiovascular disease and nutrition in CKD, and treatments to slow the progression of CKD and reduce morbidity 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, cystatin C and novel filtration markers using large databases, including the widely-used Modification of Diet in Renal Disease (MDRD) Study and Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) equations. He 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 is the Principal Investigator of the Division’s NIDDK-supported training grant (T32) in clinical trials, epidemiology and outcomes research. He was Editor-in-Chief of the American Journal of Kidney Diseases from 2007-2016.

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

RONALD D. PERRONE, MD, FASN, FNKF

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

Dr. Perrone had a major role in global and national clinical trials for ADPKD. He served as site PI and member of the steering committee for the TEMPO 251 study of tolvaptan in ADPKD. He is also site PI for the REPRIZE study of tolvaptan in stage 2-4 ADPKD. Dr. Perrone was site PI and member of the steering committee for the NIDDK-sponsored HALT PKD study. Recently, Dr. Perrone and colleagues at the University of Maryland, Baltimore, and the University of Pittsburgh received a 5-year grant from the Department of Defense to study metformin as a clinical intervention in ADPKD (TAME PKD).

Over the past 7 years, Dr. Perrone has been integral to the formation of the PKD Outcomes Consortium and has been the principal individual involved in bringing together the contributors from academia, pharma, NIH, FDA, CDISC, and C-Path. He has led this large and diverse consortium that is creating the groundwork for validation of total kidney volume as a clinical trial and regulatory endpoint in ADPKD. This consortium created a CDISC SDTM therapeutic area data standard for ADPKD, which is freely available for use for clinical trials and registries of ADPKD (http://www.cdisc.org/therapeutic#polycystickidneydisease). Recently, total kidney volume was improved as a clinical enrichment biomarker for inclusion of subjects in clinical trials of ADPKD by both the US Food and Drug Administration (http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM458483.pdf) and the European Medicines Agency (http://www.ema.europa.eu/docs/en_GB/document_library/Regulatory_and_procedural_guideline/2015/07/WC500190205.pdf). Dr. Perrone’s goal, enhanced by prior experience in epithelial biology, clinical trials, dietary modification, and translation of basic discoveries to clinical care, is to improve outcomes in chronic kidney disease, particularly polycystic kidney disease.

Dr. Perrone has been the Transplant Medical Director at Tufts Medical Center for many years, a position that will be transitioned to Dr. Goyal in 2017. Dr. Perrone was appointed as the Scientific Director of the Clinical and Translational Research Center (CTRC) in December, 2014, under the auspices of the Tufts Clinical and Translational Science Institute. The CTRC is the main site for clinical research studies at Tufts Medical Center. His role is to provide scientific leadership and facilitate research activities in the CTRC.

**Michael B. Cohen, MD**

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

**David A. Drew, MD, MS**

Dr. Drew joined the Division as staff in 2015 after completing his clinical and research nephrology fellowship at Tufts. He received a K23 grant in July 2016 from the NIDDK and was subsequently appointed as an Assistant Professor with the School of Medicine. His clinical practice is now primarily at Tufts Medical Center, providing outpatient and inpatient care in general nephrology. His research focus is on mineral metabolism, cognitive impairment, and vascular disease and how these conditions impact patients with chronic kidney disease.

**Scott J. Gilbert, MD, FASN**

Dr. Gilbert is the Director of the Fellowship Training Program and coordinates house staff nephrology education. At Tufts Medical Center, he oversees resident rotations on the inpatient Ward and Consult Services, and in the outpatient Kidney and Blood Pressure Center (KBPC). At TUSM, Dr. Gilbert is course director of the 2nd year course From Health to Disease, leader of the Renal section, and coordinates the 4th year Consultative Nephrology elective. Dr. Gilbert directs the required Objective Structured Clinical Examination for all 3rd year students. He sits on the steering committees for the Learning Communities 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 Diseases*, and
the Editor of the Primer on Kidney Disease. Dr. Gilbert sits on the Executive Committee of the ASN Training Program Directors, and was Program Chair of the 2016 Training Program Directors’ Retreat in Chicago, IL. His clinical interests are the treatment of CKD, renal artery stenosis, hemodialysis, and transplantation. In early 2017, Dr. Gilbert was promoted to Full Professor of Medicine at TUSM.

Nitender Goyal, MD

Dr. Goyal joined the Division in 2016 after completing his nephrology training at Tufts Medical Center and transplant nephrology training from University of Minnesota Medical Center. He is Associate Medical Director of Kidney Transplantation. Dr. Goyal primarily provides care for kidney transplant recipients and kidney donors. His research interest includes long term kidney allograft outcomes and donor outcomes.

Meredith C. Foster, ScD, MPH

Dr. Foster is Research Assistant Professor of Medicine and Public Health and Community Medicine at TUSM and a statistical editor for the American Journal of Kidney Diseases. Her research interests are related to the epidemiology of chronic kidney disease, including the role of obesity in the development and progression of chronic kidney disease, the impact of body composition on serum filtration markers, and the burden of risk factors, cardiovascular disease, and complications in chronic kidney disease. She is currently involved with projects evaluating risk of adverse events associated with novel serum and urinary biomarkers in the Chronic Kidney Disease Biomarkers Consortium, the burden of chronic kidney disease and its complications in the elderly from the Age, Gene/Environment Susceptibility Study, non-GFR determinants of novel filtration markers, and estimating residual kidney function with serum low molecular weight proteins and metabolites in peritoneal dialysis patients. In 2016, she joined the faculty at Duke-NUS Medical School in Singapore.

Lesley A. Inker, MD, MS, FRCP (C)

Dr. Inker’s primary research interests are in kidney function measurement and estimation, outcomes for clinical trials of kidney disease progression, and epidemiology 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 is currently the director of the analytical team to evaluate alternative albuminuria and estimated GFR based outcome as part of an FDA-EMA-NKF scientific workshop to be held March 2018, which follows from the prior scientific workshop held December 2012. Dr. Inker was 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 pregnancy and kidney disease. 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, FNKF

Dr. Jaber serves as Vice Chair for Quality Affairs in the Department of Medicine in the Department of Medicine at SEMC. His prior research efforts focused on the potential utility of genetic, plasma, and urinary markers in the prediction of development, early detection, and severity of acute kidney injury as well as adverse clinical outcomes. He has also conducted meta-analyses on preventive and treatment strategies for acute kidney injury and has examined
the role of more frequent hemodialysis to treat chronic kidney failure. Dr. Jaber is a Professor of Medicine at TUSM. He is also a faculty member of the Sackler School of Graduate Biomedical Sciences, and is co-editor for the *AJKD*.

**ALIN A. JOSEPH, MD, MS**

Dr. Joseph earned her MD from Drexel University's College of Medicine and her MS from Tufts University. She completed her internal medicine residency (2011) and clinical-research fellowship in nephrology (2014) at Tufts Medical Center. She then joined the Tufts Medical Center Division of Nephrology as a member of the clinical staff. Her nephrology practice is primarily in the outpatient setting at the Pratt Medical Office in Concord, MA. She also serves in the inpatient and outpatient settings at Lawrence Memorial Hospital in Medford, MA.

**AMY B. KUHLIK, MD**

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

**EDUARDO LACSON, JR., MD, MPH, FACP, FASN**

Dr. Lacson is an Associate Professor of Medicine at Tufts University School of Medicine. His research interest covers late CKD and ESRD, with focus on care quality, quality improvement, and patient safety. His work covers epidemiological studies, translational research, and clinical performance measurement in health policy. He has served on multiple CMS Technical Expert Panels in dialysis care. Dr. Lacson is currently a member of the steering committee for the NIH-funded TIME trial, the ASN Quality Metrics Task Force, and a member of the Editorial Board of the *American Journal of Kidney Diseases*. He is developing and implementing a new course in Quality Improvement for nephrology fellows for academic year 2016-2017.

**NICOLAOS E. MADIAS, MD, FASN**

Dr. Madias is the Maurice S. Segal, MD Professor of Medicine at TUSM and the Academic Dean of TUSM at St. Elizabeth’s Medical Center. Dr. Madias is interested in the broad field of acid-base and electrolyte metabolism. He is pursuing projects on various acid-base disorders, the epidemiology and management of dysnatremias, and the role of sodium and potassium in the pathogenesis of hypertension. Dr. Madias is also the Course Co-Chairman and Lecturer of the Early Program on Diagnosis and Management of Disorders of Acid-Base, Fluid, and Electrolyte Balance for the national meeting of the American Society of Nephrology.

**KLEMENS B. MEYER, MD**

Dr. Meyer is Director of Dialysis Services at Tufts Medical Center, Medical Director at DCI Boston, DCI Ball Square, and DCI Walden Pond 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 2 decades and served as President of the Board of Directors of the National Forum of ESRD Networks. He is a member of the Renal Disease and Detoxification Committee of the Association for the Advancement of Medical Instrumentation. In 2014, Dr. Meyer received the TUSM Distinguished Faculty Award. In 2016, he received the Nancy Johnson Heart Award from DCI.

**DANA C. MISKULIN, MD, MS, FRCP (C)**

Dr. Miskulin’s research interests include hypertension and fluid management in hemodialysis patients and interventions to slow polycystic kidney disease Her clinical interests are in general nephrology and polycystic kidney disease.
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.

Madhumathi Rao, MD, PhD, FRCP (E)

Dr. Rao’s research interests include the metabolic and inflammatory complications of CKD and ESRD. She is studying the role of the gut microbiota in the genesis of inflammation in dialysis patients. She directs the bone biopsy program for the Division and is studying the relationship between bone histology and fracture risk in patients with CKD. She is also working with investigators from Infectious diseases and Orthopedics in the role of antibiotic spacers in the development of acute kidney injury among patients presenting with prosthetic joint infections. Her clinical interests include management of CKD and its complications, critical care nephrology, glomerulonephritis, genetic kidney disease, and renal bone disease. She is currently the Associate Medical Director, Walden Pond DCI, and Consultant Nephrologist at Emerson Hospital and Attending Physician/Nephrologist at Tufts Medical Center. She is the course director for cardiovascular epidemiology for the MD-MPH course in the Tufts University School of Medicine, and serves on the Institutional Review Board and the Scientific Advisory Committee. She is Associate Professor, Department of Medicine and Department of Public Health and Community Medicine.

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 experience in patients with kidney disease. Since 1994, she has directed the Outcomes Monitoring Program (OMP) for DCI. The OMP was the first program of its kind to routinely use patient-reported outcomes in clinical care. Dr. Richardson and her staff are most recently focusing on the new regulation requiring ICH-CAHPS administrations in in-center hemodialysis facilities and developing strategic programs and materials to help facilities improve the patient experience. In 2014, Dr. Richardson was appointed as a member of the ESRD Quality Measure Development, Maintenance, and Support Project Functional Status Technical Expert Panel convened by the University of Michigan Kidney Epidemiology and Cost Center and the Center for Medicaid and Medicare Services. She is also the Director of Communications and produces this Annual Report and maintains the Division’s web site.

Mark J. Sarnak, MD, MS, FASN

Dr. Sarnak is the Director of Research in the Division of Nephrology and Professor of Medicine at Tufts University School of Medicine. His research focuses on traditional and non-traditional cardiovascular risk factors in 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, hypertension, kidney transplantation, and kidney stones.

Dhivya Sundaramurthy, MD

Dr. Sundaramurthy joined the Division as a clinical staff member in July 2016 and is currently practicing as a consultant nephrologist primarily based at Kindred Hospital of Boston. She also provides inpatient care at other hospitals including St Elizabeth’s Medical Center, Emerson Hospital and Hallmark hospitals. Her clinical interest is in the management of acid-base disorders and is involved in a research exploring the utility of THAM in tumor induced lactic acidosis. She is also involved in a retrospective study on Lithium induced nephropathy in patients on long term lithium therapy. She completed her Internal Medicine Residency and Nephrology Fellowship at Baystate Medical Center, Springfield, MA.
**Daniel E. Weiner, MD, MS, FASN, FNKF**

Dr. Weiner’s 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. Working with DCI, he is leading a large pragmatic trial of oral protein supplement use in hemodialysis patients, called the HELPS-HD Study. 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. Previously, he received a Carl W. Gottschalk Research Scholar Grant from the American Society of Nephrology and a K23 Career Development Award from the NIDDK. Additionally, he led Tufts’ involvement in the multicenter NIH-funded Systolic Blood Pressure Intervention Trial (SPRINT), which helped elucidate the appropriate blood pressure goal for antihypertensive treatment in non-diabetic adults. He is also the lead investigator at Tufts in two trials investigating diabetic nephropathy. He is collaborating with public health researchers from Boston University to investigate CKD among workers in rural Nicaragua.

Dr. Weiner is the Associate Medical Director of DCI Boston. Since October 2006, Dr. Weiner has been the Deputy Editor of the *American Journal of Kidney Diseases*, and continues to be the Policy feature editor despite the AJKD editorial offices moved to Philadelphia. Dr. Weiner is the co-Editor in Chief of the National Kidney Foundation’s *Primer on Kidney Diseases*, 6th and 7th editions. Dr. Weiner is currently the chair of the American Society of Nephrology Quality, Patient Safety, and Clinical Practice Committee and is a member of the Public Policy Board. He was the chair of the 2016 Program Committee for the NKF Spring Clinical Meeting and a member of the 2015 NKF KDOQI Hemodialysis Guideline update workgroup.

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

**Seth Wright, MD**

Dr. Wright joined the Division as clinical staff in 2013 and is the Director, Continuing Medical Education. His clinical practice is primarily at Tufts Medical Center, providing outpatient and inpatient care for issues of general nephrology and internal medicine. His research focuses on the medical issues facing patients undergoing long-term outpatient dialysis, including infections.

**Division Staff**

Members of the support staff sustain the Division’s administrative, clinical, and research operations. Geneva Tucker, the Business Operations Manager, supervises 20 personnel in the Division. The support personnel are diverse and each staff member brings specialized knowledge and skills to their respective positions. All administrative and clinical staff 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 assistants, 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>
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</table>
Kidney and Blood Pressure Center Staff

<table>
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<tr>
<th>Staff Member</th>
<th>Position</th>
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<tbody>
<tr>
<td>Dawa Dolma</td>
<td>Medical Assistant/Phlebotomist</td>
</tr>
<tr>
<td>Qina Li</td>
<td>Medical Assistant/Practice Coordinator</td>
</tr>
<tr>
<td>Sue Ann Leong-Tsan</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Hasnaa Moussaif</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Finna Tam</td>
<td>Practice Coordinator</td>
</tr>
<tr>
<td>Alison Kaprove, MS, PA-C</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Laticco Robinson, MPA, PA-C</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Christine Sullivan, MPA, PA-C</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Veronika Testa, RN</td>
<td>Staff Nurse</td>
</tr>
<tr>
<td>Joe Valencia, BA</td>
<td>Clinic Supervisor</td>
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Pratt Medical Group Nephrology and Hypertension, Concord

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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<tbody>
<tr>
<td>Sharyn Moussawee</td>
<td>Administrative Coordinator</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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<tbody>
<tr>
<td>Sara Couture</td>
<td>Research Assistant II</td>
</tr>
<tr>
<td>Eamon Flemming</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Margaret (Peggy) Healy</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Jasmine Rollins</td>
<td>Clinical Research Coordinator III</td>
</tr>
<tr>
<td>Andrew Simon</td>
<td>Research Associate II</td>
</tr>
<tr>
<td>Carly Tucker</td>
<td>Clinical Research Coordinator II</td>
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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 managing grants and coordinating research activities of the Division. Research activities of the Division are discussed in more detail starting on page 37.

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. See page 57 for details.

At the close of 2016, the American Journal of Kidney Diseases (AJKD) editorial office ended a successful 10-year term in the Division. Staff members Nijsje Dorman, Elizabeth Bury, Caroline Blanchard, Elizabeth Frank, and Barbara Saper concluded their work with the journal after facilitating the editorial office’s smooth transition to its new home at the University of Pennsylvania. Dr. Dorman, Ms. Frank and Ms. Saper will continue their work for AJKD at the UPenn office, retaining their titles. Ms. Bury is now Managing
2016 Faculty and Staff Changes

Faculty Changes
- Nitender Goyal, MD, former clinical fellow, recently completed transplant fellowship at University of Minnesota Medical Center in Minneapolis, MN in June and joined the Division faculty as the Transplant Nephrologist in July 2016.
- Dhivya Sundaramurthy, MD recently completed a 2-year Nephrology Fellowship at Baystate Medical Center and joined the Division faculty in July 2016 as an attending.
- Meredith Foster, ScD accepted a faculty position as an Assistant Professor at Duke-NUS Medical School in Singapore.

Staff Changes

Research
- Elise Hoover, a long-time research coordinator, left the Division to pursue a fellowship at the National Institutes of Health.
- Carly Tucker joined the Division in the Spring as a research study coordinator on the REPRISE and TAME studies. She is a recent graduate of the University of Central Florida and is enrolled in a MPH graduate program at Boston University.
- Sara Couture joined the Division and is working with Dr. Inker on a variety of projects.

Clinical
- Alison Kaprove, MS, PA-C joined the Division as our 3rd physician assistant in the Kidney and Blood Pressure Center. Alison comes to the division from the inpatient transplant service at Brigham and Women’s Hospital, where she was a PA for 6 years.
- Daniel Migliozzi joined the Department of Pharmacy as a Clinical Pharmacy Specialist in Solid Organ Transplantation. Dan will work most closely with the Nephrology and Kidney Transplant services.
- Melissa Parente joined Tufts as the new Transplant Administrator for the kidney, heart and bone marrow transplant programs. Melissa comes to us with extensive transplant program experience, from UCSF—the largest kidney transplant program in the US.
- Joe Valencia has been promoted to Business Operations Manager for Gastroenterology. We’ll miss his presence in clinic but feel fortunate that he’ll remain within Tufts Medical Center.
- Qina Li joined the Division of Nephrology as the new Medical Assistant/Practice Coordinator in the renal clinic. Qina comes to us from the Nephrology Call Center pod and she previously worked as a phlebotomist at Newton-Wellesley and as medical assistant at a specialist office in Winchester.
Service

Service to Tufts Medical Center

- Dr. Gilbert serves on the Internal Medicine Residency Clinical Competency Committee, the Graduate Medical Education Committee, and the Internal Medicine Residency Curriculum Committee.
- Drs. Gilbert, Sarnak and Weiner are members of the Tufts Medical Center Internal Medicine Residency Selection Committee.
- Dr. Inker is a member of the EHR Physician Workgroup and the Care Improvement Council.
- Dr. Rao is a member of the Tufts Health Sciences Campus Investigational Review Board and is a subcommittee member of the Clinical Faculty Appointment and Promotion Committee.
- 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.
- Dr. Weiner is the Portal Navigator for the Tufts Clinical and Translational Science Institute (CTSI). Dr. Jaber is a member of CTSI the steering committee. Dr. Sarnak is also a member of this committee.

Service to TUSM/Sackler School of Graduate Biomedical Sciences

- Several members of the Division have roles on the TUSM Curriculum Committee; Dr. Gilbert is an Ex Officio member.
- Dr. Gilbert serves on the Learning Community Steering Committee and the Community Service Learning Effort Steering Committee and is chair of the Objective Structured Clinical Examination (OSCE) Committee, the Curriculum Integration Committee, and the Pre-Clinical Course Directors Committee.
- Dr. Madias is a member of the Executive Council.
- Dr. Rao is a member of the TUSM Scientific Affairs Committee.

Service to Professional Organizations

- Dr. Gilbert is a member of the Panel for Accreditation Appeals in Nephrology Accreditation Council for Graduate Medical Education. He also is a member of the Medical Advisory Board of the regional NKF.
- Dr. Gilbert is a member of the Executive Committee of the American Society of Nephrology and is chairman of the Nephrology Training Program Directors and Workforce Executive Committee for the ASN and a member of ASN’s Match Oversight Task Force.
- Dr. Gilbert is program chair for the Nephrology Training Program Directors Retreat.
- Dr. Inker is chair of the International Classification of Disease in the United States and is also chair of the Clinical Oversight committee for the NFK’s Kidney Early Education Program (KEEP).
- Dr. Inker is a member of the Renal Working Group for development of the International Classification of Diseases Committee for the WHO.
- Dr. Lacson is a member of the ASN Quality Metrics Task Force and a delegate for the ASN National Kidney Health Initiative. He is also a delegate for the CDC Making Dialysis Safer Coalition.
- Dr. Lacson is a member of the ISN Dialysis/Outcomes Abstract Committee.
- Dr. Lacson is the director of DCI’s Clinical Science and Quality Initiatives.
- Dr. Levey is a member of the NKF Scientific Advisory Board.
- Dr. Madias is a member of the Scientific Advisory Committee for the Graduate Program on the Molecular Basis of Human Disease at the University of Crete, the Advisory Committee on Science and
Technology subcommittee on Bioethics and Medical Issues for the Greek Orthodox Archdiocese of America and the Advisory Board for the Hellenic Bioscientific Association in the USA.

- Dr. Meyer is the Medical Director for the DCI Information Systems and the Outcomes Monitoring Program. He is also a member of the Medical Information System Steering Committee.
- Dr. Meyer is a member of the Renal Disease and Detoxification Committee for the Association for the Advancement of Medical Instrumentation, the American Association of Kidney Patients Medical Advisory Board, and the USRDS Expert Advisory Committee.
- Dr. Meyer is a member of the ASN Dialysis Advisory Group.
- Dr. Perrone is Co-Executive Director of the Polycystic Kidney Disease Outcomes Consortium and is a member of the Scientific Advisory Committee for the Polycystic Kidney Disease Foundation.
- Dr. Perrone is chairman of the External Advisory Committee for the Kansas University PKD Core Center and chairman of the External Advisory Committee for the Mayo Translational PKD Center. He is also a member of the External Advisory Committee for the University of Maryland PKD Core Center.
- Dr. Perrone is a member of the NKF of MA, NH, and RI Medical Advisory Board.
- Dr. Rao is a voting panel member of the ACR GIOP Guideline Development for the American College of Rheumatology.
- Dr. Richardson is a member of the ESRD Quality Measure Development, Maintenance, and Support Project Functional Status Technical Expert Panel for the University of Michigan Kidney Epidemiology and Cost Center and the Center for Medicaid and Medicare Services.
- Dr. Sarnak is the Co-Chair of the Renal Working Group of the Cardiovascular Health Study.
- Dr. Sarnak is a member of the ALLHAT Renal Working Group.
- Dr. Sarnak is Chair of the Clinical Research Presentations Panel for the 11th Annual National Young Investigators Forum for the National Kidney Foundation.
- Dr. Weiner is the chair of the ASN Quality, Patient Safety, and Clinical Practice Committee.
- Dr. Weiner is the ASN representative for Kidney Care Partners and is a member of the ASN Public Policy Board. Dr. Weiner is also a Grant Evaluator for DCI’s Paul Teschan Research Committee and a member of the DCI Medical Director Research Committee and Quality Management Committee.
- Dr. Weiner is a member of the Program Committee for the 2017 National Kidney Foundation Spring Clinical Meeting. Dr. Meyer was the co-director of the pre-meeting course on dialysis for the 2016 NKF Spring Clinic Meetings.

2016 Administrative Awards and Honors

- Dawa Dolma was selected as the January 2016 Saltonstall Employee of the Month. The Saltonstall Award recognizes 1 employee each month who exemplifies the Tufts iCARE 12 tenets, who stands out among their peers as an excellent service provider, who goes above and beyond the scope of their position, and who demonstrates a commitment to team work both in and out of their departments.
- Geneva Tucker was honored by Tufts Medical Center as being Tufts MC True Blue. "Tufts MC True Blue shines a spotlight on Tufts MC and Floating Hospital employees with the purpose of recognizing and honoring those who have performed extraordinary acts of customer service, innovation, quality and/or kindness."
- DCI Patient Care Tech Barbara Pasiewicz celebrated 20 years of service to our DCI outpatient dialysis clinic. In addition to the outstanding care she provides, Barbara is DCI Boston’s resident photographer, always capturing memories at staff social events.
Patient Care
2016 Patient Care Initiatives

- In an effort to improve the experience of our patients, a pilot valet program was developed in collaboration with Tufts Patient Experience Team and Parking services that allows patients to drop their car off in front of the 35 Kneeland Street building for parking and then request their car be brought to the front of the building at the end of their appointment.
- Hallmark Health joined Wellforce with Tufts MC and Circle Health in Lowell MA. The affiliation should improve coordination with the off-site practices of Drs. Cohen and Joseph with the Tufts MC practice.
- Dr. Weiner started a specialty hypertension clinic in two locations—the KBPC and General Medical Associates.

Continuing Patient Care Initiatives

Bone Biopsy Center
Directed by Dr. Rao, the Bone Biopsy Center works with other nephrologists, endocrinologists, endocrine surgeons, orthopedic surgeons and pathologists to provide comprehensive care plans for patients with metabolic bone disease.

To diagnose and manage these diseases, most physicians use a parathyroid hormone (PTH) assay, which has serious limitations. The gold standard is a bone biopsy, which helps characterize the bone quality and architecture, establishes turnover rates and provides an optimal treatment guide. Currently, Tufts Medical Center is the only center in New England to perform biopsies to aid in the diagnoses and management of bone disease associated with kidney disease.

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

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

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

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

Multidisciplinary consultations are provided in collaboration with Gennaro Carpinito, MD, Urologist-in-Chief and Charles M. Whitney Professor and Chairman, Department of Urology; Adel Malek, MD, Chief, Division of Neurovascular Surgery; Jeffrey Cooper, MD, Chief, Transplant Surgery; Sajani Shah, MD, Surgeon, Bariatric and Minimally Invasive Surgery; Michael Tarnoff, MD, Surgeon, Minimally Invasive Surgery Center; and Laurence H. Brinckerhoff, M.D., Division of Thoracic Surgery

This center also addresses the complications of PKD resulting in new transplants, aneurysm repair, video thorascopic splanchnicectomy (VSPL) for relief of intractable cyst pain and laparoscopic cyst reduction.

As part of the PKD Center, Dr. Perrone holds a PKD clinic during which he and 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 and provides a unique opportunity to see the wide range of complications in this disease.

Drs. Perrone and Miskulin also participate in clinical trials for patients with PKD including TEMPO 211, TAME (metformin), and REPRISE (TEMPO 210).

Kidney Transplantation Program
New evaluations of potential kidney transplant recipients are performed in a single morning or afternoon session by a multidisciplinary team consisting of transplant coordinator, transplant nephrologist, transplant surgeon, social worker, dietician and pharmacist. The Division of Nephrology has established a specific Kidney Transplant follow-up clinic for recent kidney transplant recipients on Tuesday mornings staffed by Dr. Goyal. Drs. Perrone, Gilbert and Inker also work closely with the transplant coordinators, seeing donors on Tuesday, Wednesday, or Thursday mornings in the Kidney and Blood Pressure Center. The kidney transplant program has excellent overall outcomes. One-year patient and graft survival rates of 98.3% and 97.2%, respectively, are truly outstanding.
Outpatient Program Descriptions

Home Dialysis
The Division of Nephrology treats almost 1/3 of its dialysis patients by home dialysis. We participate in a regional home dialysis program, directed by Dr. Meyer, which treats about 45 patients by peritoneal dialysis and home hemodialysis at DCI’s Ball Square facility in Somerville. Jane Maxim, RN, who has more than 40 years’ experience in dialysis, is the program’s Nurse Manager, leading a team of four nurses, a dietician and a social worker. In addition to English, the nurses speak Cantonese, Mandarin, and Vietnamese. We offer urgent start peritoneal dialysis, and a newly expanded home program space allows respite home hemodialysis and peritoneal dialysis for patients relying on family members to assist with their treatment. The program prides itself on its flexibility, training patients on evenings and weekends when necessary, and making accommodations to minimize the disruption of patients’ lives by dialysis treatment. The nurses have become expert at training the staff of long term care facilities, and maintaining their skills. The program won DCI’s 2013 Darwin Peterson Award for the best peritoneal dialysis program throughout DCI’s national network of more than 200 dialysis facilities. Drs. Meyer, Weiner, Miskulin and Cohen hold monthly home dialysis clinics at DCI Ball Square and Dr. Rao holds a monthly home dialysis clinic at DCI Walden Pond.

Table 3: Outpatient Hemodialysis Programs Affiliated with Tufts Medical Center

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

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. The hemodialysis nursing staff have a median of more than 25 years’ experience in dialysis. Chad Stevenson RN serves as nurse manager, and Ferdie Cigaral RN as Assistant Nurse Manager. Dr. Meyer’s and Weiner’s offices are adjacent to the dialysis unit, and the other dialysis attending physicians and fellows have offices one floor up. Physical proximity makes frequent patient contact practical and facilitates interaction between physicians and dialysis staff. Physicians round on each patient shift twice a week.

According to the FY 2017 CMS Dialysis Facility Report (DFR), DCI Boston’s 2012-2015 standardized mortality ratio (SMR) was 0.71 (p<0.05), showing better patient survival than would be expected on the basis of patient characteristics; this was the third year in a row that survival was statistically significantly better than expected. The DFR reported that in 2015, only 3.3% of patients had hemodialysis catheters for 90 days or longer, 1/3 the national rate.. Only 7% had hemoglobin values below 10 g/dl, compared to 16% nationally. Twice as many of the patients (46%, p<0.05) were listed for transplantation than in the country as a whole.
(23%), despite the fact that at any one time, a quarter to a third of patients do not speak English.

On September 29, 2016 DCI Boston celebrated its 30th anniversary.

DCI Ball Square (Somerville MA)
In addition to the large home program, DCI Ball Square treats approximately 85 in-center hemodialysis patients. Dr. **Tony Dash** opened this program in 1999, and directed it until June 2015, when he relocated to his home town of Seattle, WA. The 2017 Dialysis Facility Report for Ball Square found the 2012-2015 STR of observed to expected number of patients transplanted for this facility to be 3.02 (p<0.05), higher than expected for the third year in a row. The proportion of patients waitlisted for transplantation was 26%, statistically significantly above the national rate of 23%, also for a third year in a row. **Agnes Rawski, RN** serves as nurse manager of the in-center hemodialysis program.

DCI Walden Pond (Concord MA)
DCI Walden Pond opened in 2003. Dr. **Meyer** is the medical director and Dr. **Rao** is the Associate Medical Director. DCI Walden Pond treats 45 hemodialysis patients; **Christine Hamann, RN** serves as nurse manager. Dr. Rao holds a monthly home dialysis clinic at the facility.

Outpatient Volume
All volume numbers are for the Tufts Medical Center and DCI fiscal year 2016 (October 2015—September 2016), unless otherwise stated.
Table 4: Comparison of Outpatient Activity: Fiscal Year 2015 vs. 2016

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2015</td>
<td>2016</td>
</tr>
<tr>
<td><strong>Tufts Medical Center</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kidney Blood Pressure Center</td>
<td>5,301</td>
<td>5,474</td>
</tr>
<tr>
<td>Pratt Medical Group Nephrology and Hypertension, Concord</td>
<td>1,812</td>
<td>1,777</td>
</tr>
<tr>
<td><strong>Dialysis Clinic, Incorporated</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boston (Tufts Medical Center) hemodialysis treatments</td>
<td>14,073</td>
<td>15,142</td>
</tr>
<tr>
<td>Ball Square hemodialysis treatments</td>
<td>12,311</td>
<td>11,956</td>
</tr>
<tr>
<td>Ball Square home-dialysis patients</td>
<td>48</td>
<td>44</td>
</tr>
<tr>
<td>Walden Pond hemodialysis treatments</td>
<td>6,569</td>
<td>6,746</td>
</tr>
</tbody>
</table>

Table 5: Comparison of Outpatient Dialysis Visits by Division Physicians at Affiliated Units: Fiscal Year 2015 vs. 2016

<table>
<thead>
<tr>
<th>Dialysis Unit</th>
<th>Number of Visits Fiscal Year 2015</th>
<th>Number of Visits Fiscal Year 2016</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Elizabeth’s Medical Center</td>
<td>130</td>
<td>125</td>
<td>3.8%</td>
</tr>
<tr>
<td>Lawrence Memorial</td>
<td>67</td>
<td>66</td>
<td>-1.5%</td>
</tr>
<tr>
<td>Saugus</td>
<td>135</td>
<td>136</td>
<td>0.7%</td>
</tr>
<tr>
<td>Stoneham</td>
<td>351</td>
<td>388</td>
<td>10.5%</td>
</tr>
</tbody>
</table>

Table 6: Comparison of Outpatient Ambulatory Visits by Division Physicians at Affiliated Clinics: Fiscal Year 2015 vs. 2016

<table>
<thead>
<tr>
<th>Ambulatory Clinics</th>
<th>Number of Visits Fiscal Year 2015</th>
<th>Number of Visits Fiscal Year 2016</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawrence Memorial</td>
<td>456</td>
<td>451</td>
<td>-1.1%</td>
</tr>
<tr>
<td>Reading</td>
<td>811</td>
<td>1,013</td>
<td>24.9%</td>
</tr>
</tbody>
</table>

Inpatient Program Descriptions

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 (CVVHD 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 Dr. Goyal is the Associate Medical Director of 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 Project that has centralized the coordination of sharing by mismatched donor-recipient pairs so as to allow regional and national paired-donor exchanges. Patients who have received transplants are seen weekly in the Kidney and Blood Pressure Center in the initial months following the transplant, thereafter at increasing intervals. The transplant team at Tufts Medical Center has conducted more than 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, which uses NxStage System 1 machines to perform continuous venovenous hemodialysis (CVVHD).

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

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

Continuous Renal Replacement Therapy
Dr. Perrone directs the continuous renal replacement therapies (e.g., continuous venovenous hemodialysis 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. 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 2015 to September 2016, unless otherwise indicated.

Table 7: Comparison of DCI Inpatient Hemodialysis Treatments: Fiscal Year 2015 vs. 2016

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tufts Medical Center</strong>: Inpatient hemodialysis treatments</td>
<td>2,502</td>
<td>2,774</td>
<td>10.9%</td>
</tr>
<tr>
<td><strong>Emerson Hospital</strong>: Inpatient hemodialysis treatments</td>
<td>115</td>
<td>69</td>
<td>-40%</td>
</tr>
</tbody>
</table>
Table 8: Comparison of Inpatient Activity: Fiscal Year 2015 vs. 2016

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tufts Medical Center</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient-days of service: Nephrology Consult &amp; Ward Services</td>
<td>9,388</td>
<td>11,019</td>
</tr>
<tr>
<td>Kidney transplants*</td>
<td>25</td>
<td>36</td>
</tr>
<tr>
<td>Days of CVVH and peritoneal dialysis treatments</td>
<td>624</td>
<td>601</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>513</td>
<td>1,019</td>
</tr>
<tr>
<td><strong>Emerson Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>929</td>
<td>758</td>
</tr>
<tr>
<td><strong>Kindred Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>1,126</td>
<td>1,881</td>
</tr>
<tr>
<td><strong>Lawrence Memorial Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>740</td>
<td>668</td>
</tr>
<tr>
<td><strong>Melrose Wakefield Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>2,229</td>
<td>2,712</td>
</tr>
<tr>
<td><strong>Whidden Hospital</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>111</td>
<td>143</td>
</tr>
</tbody>
</table>

*Calendar year 2016

**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.

- Dr. **Gilbert, Veronika Testa, Elise Hoover** and **Peggy Healy** volunteered at the 2016 World Kidney Day KEEP Screening sponsored by the NKF Serving New England at City Hall, Boston MA.
- **Joe Valencia** participated in the 20th annual Cycle for Life event for the Floating Hospital for Children
at Tufts Medical Center which will benefit the Tufts Cancer Center and Child Life Program. Joe and his team, the “Wrecking Crew,” raised more than $7,500 for the program.

- Division members participated in the PKD Foundation’s Walk for PKD on September 11th. While the team was ready to go, the weather did not cooperate and the walk was cancelled.

- On October 6th Division team members participated in the National Kidney Foundation’s Annual Kidney Walk at Canal Park in Cambridge, MA.
- In November Haewook Han, PhD, RD, CSR, LDN, held nutrition education session, “Healthy Holiday Eating in CKD,” for our patients to help patients navigate the maze of holiday eating with minimal confusion and frustration.

2016 Patient Care Awards and Honors
- Dialysis Clinic Inc’s Boston clinic received amazing feedback from their non-regulatory infection control audit. The Department of Public Health is using third party to visit all dialysis clinics in Massachusetts throughout 2016. This company is looking at a myriad of infection control patterns among dialysis clinics and will be submitting data to DPH on any trends that they notice, good and bad. DCI Boston’s auditor praised the staff on their consistency in relation to disinfecting a patient’s access. Her final acknowledgement on our infection control practice was that the clinic was the most uniform clinic she has seen so far this year.
- Dr. Meyer won the Nancy Johnson Heart Award at this year's DCI Annual Meeting. He received the award along with his long-term colleague and friend, Chris Lovell. The award, named for the late Nancy Johnson, DCI Director and Board member since the company's inception, recognizes individuals that go above and beyond in their commitment to the company, its patients and its staff.
• At Dialysis Clinic Inc’s Annual Meeting, the Boston-area clinics received the following patient care awards:

  5 Diamond Safety Award:
  • DCI Boston and DCI Somerville - 5 Diamonds
  • Walden Pond - 3 Diamonds (working on 4th)

  4 Star Clinical Outcomes Award:
  • DCI Boston - 4 Stars
  • DCI Somerville - 2 Stars
  • DCI Walden Pond - 3 Stars

  Of DCI’s more than 200 clinics, DCI Boston was one of nine clinics to receive 4 stars, acknowledging their hard work meeting benchmarks in albumin, KT/V, dialysis access and anemia every month.

• In December 2016 Boston Magazine released its “Top Doctors” issue, recognizing Drs. Gilbert, Inker, Meyer and Weiner were recognized as Boston’s best nephrologists.

• Dr. Jaber was honored with the Best Doctor in America award by Best Doctors, Inc.

• Lynda Parke, a member of the DCI Ball Square Home team won best prize for her poster entitled Use of Bristol Stoll Scale in a PD Program at the DCI Spring Meeting. This was the second year in a row she received this honor.
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.

**2016 New Research Grant Awards**

Figure 1, Table 10 and Table 11 illustrate the research grant awards received by Division members.

![Figure 1: Division of Nephrology Research Grant Awards FY 2012-2016, by type.](image-url)
Table 9 lists the 5 new research grants received in 2016.

### Table 9: New Research Grant Awards Received in 2016

<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>Drew</td>
<td>NIH</td>
<td>Federal K23 Award</td>
<td>The Association of FGF-23 and Klotho with Cognitive Impairment and Cerebrovascular Disease in Chronic Kidney Disease</td>
<td>5</td>
</tr>
<tr>
<td>Inker</td>
<td>NIH</td>
<td>Federal U01 Award</td>
<td>CKD Biomarker Consortium-Phase 2: Risk Markers in Blood</td>
<td>5</td>
</tr>
<tr>
<td>Inker</td>
<td>NKF</td>
<td>Foundation Award</td>
<td>Change in Albuminuria and GFR as End Points for Clinical Trials in Early Stages of CKD</td>
<td>2</td>
</tr>
<tr>
<td>Miskulin</td>
<td>DCI</td>
<td>Foundation Award</td>
<td>The Dialysate Sodium Lowering Trial (DESALT)</td>
<td>3</td>
</tr>
<tr>
<td>Sarnak</td>
<td>NIH</td>
<td>Federal U01 Award</td>
<td>Beyond the Glomerulus: Novel Clinical Markers of Kidney Health and Prognosis</td>
<td>5</td>
</tr>
</tbody>
</table>

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

Table 10 shows research grant awards received by Division members.

### Table 10: Ongoing Research Grant Awards Received Prior to 2016

<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>Inker</td>
<td>Pharmalink</td>
<td>Clinical Trial</td>
<td>Proteinuria reduction in primary IgA nephropathy</td>
<td>2011</td>
</tr>
<tr>
<td></td>
<td>Otsuka</td>
<td>Clinical Trial</td>
<td>Metabolomics to Study Treatment Effect and Toxicities of Tolvaptan in Tolvaptan Efficacy and Safety in Management of Autosomal Dominant Polycystic Kidney Disease and Its Outcome (TEMPO) 3:4 trial</td>
<td>2015</td>
</tr>
<tr>
<td>Levey</td>
<td>NIH/NIDDK</td>
<td>Federal T32</td>
<td>Epidemiology, Clinical Trials and Outcomes Research</td>
<td>1999</td>
</tr>
<tr>
<td>NIH/NIDDK</td>
<td>Federal Subcontract</td>
<td>Proteomic Approach to CKD Biomarker Discovery and Validation</td>
<td>2010</td>
<td></td>
</tr>
<tr>
<td>NIH</td>
<td>Federal Subcontract</td>
<td>Chronic Kidney Disease Prognosis Consortium</td>
<td>2014</td>
<td></td>
</tr>
<tr>
<td>NIH</td>
<td>Federal R01</td>
<td>Federal R01</td>
<td>Estimating GFR from a Panel of Endogenous Filtration Markers (Panel eGFR)</td>
<td>2012</td>
</tr>
<tr>
<td>NKF</td>
<td>Foundation Grant</td>
<td>GFR Decline as an Outcome for Clinical Trials in CKD</td>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>Principal Investigator</td>
<td>Award Source</td>
<td>Type of Award</td>
<td>Title</td>
<td>Year of Award</td>
</tr>
<tr>
<td>------------------------</td>
<td>--------------</td>
<td>---------------</td>
<td>-------</td>
<td>---------------</td>
</tr>
<tr>
<td>Levey</td>
<td>NIH/NIDDK</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>DCI</td>
<td>Foundation</td>
<td></td>
<td>Monitoring PD Adequacy Using Serum Levels of Endogenous Filtration Markers</td>
<td>2013</td>
</tr>
<tr>
<td>NIH</td>
<td>Federal Subcontract</td>
<td></td>
<td>Comparative Effective Studies of Strategies to Improve Patient Outcome In ESRD</td>
<td>2010</td>
</tr>
<tr>
<td>Miskulin</td>
<td>Intelomed</td>
<td>Clinical Trial</td>
<td>Measuring Cardiovascular Stress on Hemodialysis Patients</td>
<td>2014</td>
</tr>
<tr>
<td>NIH</td>
<td>Federal Subcontract</td>
<td></td>
<td>Pragmatic Trials in Maintenance Hemodialysis</td>
<td></td>
</tr>
<tr>
<td>Perrone</td>
<td>DOD</td>
<td>Federal Grant</td>
<td>Metformin as a Novel Therapy for Autosomal Dominant Polycystic Kidney</td>
<td>2015</td>
</tr>
<tr>
<td>NIDDK</td>
<td>Federal U01</td>
<td></td>
<td>PKD Clinical Trials Network</td>
<td>2002</td>
</tr>
<tr>
<td>Otsuka</td>
<td>Clinical Trial</td>
<td></td>
<td>A Phase 3b, Multi-center, Randomized-withdrawal, Placebo-controlled, Double-blind, Parallel-group Trial to Compare the Efficacy and Safety of Tolvaptan (45 to 120 mg/day, split-dose) in Subjects with Chronic Kidney Disease Between Late Stage 2 and Early Stage 4 Due to Autosomal Dominant Polycystic Kidney Disease.</td>
<td>2014</td>
</tr>
<tr>
<td>Otsuka</td>
<td>Clinical Trial</td>
<td></td>
<td>A Phase 3b, Multi-center, Open-Label Trial to Evaluate the Long-Term Safety of Titrated Immediate-release Tolvaptan (OPC-41061, 30 mg to 120 mg/day, split dose) in Subjects with Autosomal Dominant Polycystic Kidney Disease.</td>
<td>2014</td>
</tr>
<tr>
<td>Sarnak</td>
<td>DCI</td>
<td>Foundation</td>
<td>Risk Factors and Screening for Cognitive Impairment in Hemodialysis Patients</td>
<td>2015</td>
</tr>
<tr>
<td>NIH</td>
<td>Federal R01</td>
<td></td>
<td>The Aging Kidney: Chronic Injury, Impaired Functions and Clinical Outcomes</td>
<td>2011</td>
</tr>
<tr>
<td>NIH</td>
<td>Federal Subcontract</td>
<td></td>
<td>Kidney Tubular Damage and Dysfunction Identify a Novel Axis of Kidney Disease</td>
<td>2014</td>
</tr>
<tr>
<td>NIH</td>
<td>Federal R01</td>
<td></td>
<td>Randomized Trial of Exercise Training on Cognitive and Physical Function in CKD</td>
<td>2011</td>
</tr>
<tr>
<td>Weiner</td>
<td>Janssen</td>
<td>Clinical Trial</td>
<td>A randomized, double-blind, event-driven, placebo-controlled, multicenter study of the effects of Canagliflozin on Renal and Cardiovascular Outcomes in subjects with Type 2 Diabetes Mellitus and Diabetic Nephropathy. The CREDENCE Trail (Canagliflozin and Renal Events in Diabetes with Established Nephropathy Clinical Evaluation Trial).</td>
<td>2014</td>
</tr>
</tbody>
</table>
A total of 72 print publications and 25 epublications were authored and/or co-authored by Division members in 2016. An asterisk beside a name indicates a current trainee as an author.

### 2016 Print Publications


49. Miskulin DC, Majchrzak K, Tighiouart H, Muther RS, Kao Pian T, Johnson DS, Weiner DE. Ergocalciferol


2016 Epublications


and cardiac troponin are associated with adverse outcomes in stable kidney transplant recipients. Transplantation 2016 Jan 20; PMID:26910333.


2016 Research Awards and Honors

- Dr. Levey was inducted into the American Association of Physicians after being nominated by Anthony Monaco, PhD, MD, President of Tufts University and Jerome P. Kassirer, MD, Distinguished Professor TUSM. He was inducted at the Annual Meeting in Chicago.

- Dr. Pranav Garimella, Research Fellow, received two awards at the American College of Cardiology 65th Annual Scientific Session and Expo. His poster entitled “Temporal trends and complications associated with lower limb revascularization in patients on hemodialysis” received both the Best Poster and Best Fellow in Training Poster awards.

- In June, members of the Division, including former fellow Dr. John Gill, participated in the SONG-Tx
workshop during the American Transplant Congress in Boston. A large portion of the patients that also participated in the workshop were from Tufts. As part of the workshop, patients, family members and care givers, discussed establishing core outcomes for trials in kidney transplantation.

- **Meredith Foster, ScD** and Dr. **Meyer** collaborated with microbiologist JoAnn Maltais, PhD in the largest published study to date comparing bacteriological methods used to culture water and fluid used for hemodialysis. The method used in the United States differs from the method currently sanctioned by international standards. This paper provides important evidence that the different methods are comparable in warning dialysis staff about microbial contamination, so that they may take action to protect patients' safety. The paper has appeared online in Hemodialysis International; it is freely available at [http://onlinelibrary.wiley.com/doi/10.1111/hdi.12477/full](http://onlinelibrary.wiley.com/doi/10.1111/hdi.12477/full).

- For the third year in a row, Dr. **Levey** has been named a Thomson Reuters Web of Science Highly Cited Researcher, identifying his work as being among the most valuable and significant in the field. Dr. Levey is the only researcher from Tufts Medical Center to receive this distinction and only 1 of 4 for Tufts University.
Education

Tufts University

School of Medicine

M'16

Health to Disease

Renal

Syllabus

Second Year
Fall Semester 2013
Academic Year 2013-2014

Course Directors: Scott Gilbert, MD
Monika Pilichowska, MD
The Division is committed to education. Local and national initiatives involve all members of the Division. National efforts stem largely from leadership and participation in basic and clinical research, service to national organizations and boards that establish standards in clinical practice and educational testing, and speaking engagements at local, national, and international conferences. Affiliations with TUSM, TUSDM, the Friedman School of Nutrition Science and Policy, and the Sackler School of Graduate Biomedical Sciences at Tufts University are the focus of most of our local education initiatives. The nephrology journal *American Journal of Kidney Diseases* and the nephrology textbook *Primer of Kidney Diseases* are edited in the Division.

**2016 Education Initiatives**

**Visiting Professors and Faculty**

The Division had 1 visiting professor and 5 visiting faculty this year. Table 11 lists the professors, visitors and their presentation topics.

Table 11: 2016 Visiting Professors and Visiting Faculty

<table>
<thead>
<tr>
<th>Visiting Professor/Faculty</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>John Gill, MD, MS</strong></td>
<td>Research Conference: Transplantation in the elderly</td>
</tr>
<tr>
<td>Professor with Tenure</td>
<td>Harrington Grand Rounds: Living kidney donation</td>
</tr>
<tr>
<td>Department of Medicine</td>
<td></td>
</tr>
<tr>
<td>Division of Nephrology</td>
<td></td>
</tr>
<tr>
<td>Vancouver, B.C. Canada</td>
<td></td>
</tr>
<tr>
<td>Research Scientist Center for Health and Evaluation and Outcome Science</td>
<td></td>
</tr>
<tr>
<td>University of British Columbia</td>
<td></td>
</tr>
<tr>
<td><strong>Steve Coca, DO, MS</strong></td>
<td>Biomarkers in diabetic kidney disease and insights from CKD BioCon 2</td>
</tr>
<tr>
<td>Associate Professor of Medicine</td>
<td></td>
</tr>
<tr>
<td>Yale University</td>
<td></td>
</tr>
<tr>
<td>Division of Nephrology</td>
<td></td>
</tr>
<tr>
<td>Mount Sinai Hospital</td>
<td></td>
</tr>
<tr>
<td><strong>Kevin E. Chan, MD, MS</strong></td>
<td>Big pharmacoEpi data: the evidence for non-vitamin K anticoagulants in patients with advanced CKD or on dialysis</td>
</tr>
<tr>
<td>Assistant Professor of Medicine</td>
<td></td>
</tr>
<tr>
<td>Division of Nephrology</td>
<td></td>
</tr>
<tr>
<td>Massachusetts General Hospital</td>
<td></td>
</tr>
<tr>
<td><strong>David Charytan, MD, MSc</strong></td>
<td>Arrhythmia and microvascular disease in chronic kidney disease</td>
</tr>
<tr>
<td>Assistant Professor of Medicine</td>
<td></td>
</tr>
<tr>
<td>Harvard Medical School</td>
<td></td>
</tr>
<tr>
<td>Associate Staff Physician, Renal Division</td>
<td></td>
</tr>
<tr>
<td>Brigham &amp; Women’s Hospital</td>
<td></td>
</tr>
<tr>
<td><strong>Keren Ladin, PhD, MSc</strong></td>
<td>Patient-centered care for persons with ESRD: new approaches to reducing disparities and improving shared decision-making in dialysis initiation and transplantation</td>
</tr>
<tr>
<td>Department of Occupational Therapy</td>
<td></td>
</tr>
<tr>
<td>Tufts University</td>
<td></td>
</tr>
<tr>
<td>Department of Public Health and Community Medicine</td>
<td></td>
</tr>
<tr>
<td>Tufts University School of Medicine</td>
<td></td>
</tr>
<tr>
<td><strong>Casey Rebholz, PhD, MS, MPH</strong></td>
<td>Change in filtration markers: evaluating associations with end-stage renal disease, cardiovascular disease, and mortality.</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td></td>
</tr>
<tr>
<td>Department of Epidemiology</td>
<td></td>
</tr>
<tr>
<td>Johns Hopkins Bloomberg School of Public Health</td>
<td></td>
</tr>
</tbody>
</table>
### Continuing Education Initiatives

**Table 12**: 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>Division Attendings and Fellows</td>
</tr>
<tr>
<td></td>
<td>Renal Ward Service</td>
<td>Nephrology fellows and several members of the physician staff</td>
</tr>
<tr>
<td></td>
<td>3-part clinical nephrology series for Internal Medicine Clerkship</td>
<td>Division Attendings</td>
</tr>
<tr>
<td></td>
<td>Consultative Nephrology</td>
<td>Dr. Gilbert</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. Gilbert and Wright</td>
</tr>
<tr>
<td>Friedman School of Nutrition Science and Policy</td>
<td>Lectures on kidney disease, hypertension and nephrology</td>
<td>Drs. Meyer and Weiner</td>
</tr>
<tr>
<td></td>
<td>Nutritional Biochemistry and Physiology</td>
<td>Dr. Gilbert, Nephrology Section Leader</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>

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

<table>
<thead>
<tr>
<th>Institution</th>
<th>Role</th>
<th>Personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sackler School of Graduate Biomedical Sciences at Tufts University</td>
<td>Mentor fellows during their independent research and thesis preparation in pursuit of a Masters of Science degree</td>
<td>Drs. Levey and 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>
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 39% of the 38 graduates of the fellowship program have continued in full-time academic positions. Another 16% 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, 86 applications to the clinical fellowship program were reviewed for 2 open positions available in 2016. Table 14 and Table 15 list graduating and current clinical fellows.

Table 14: Graduated Clinical Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sindhu Arjun, MD</td>
<td>2014-2016</td>
<td>Clinical Nephrology</td>
</tr>
<tr>
<td>Nar Varothai, MD</td>
<td>2014-2016</td>
<td>Geriatric Fellowship</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Massachusetts General Hospital</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Boston, MA</td>
</tr>
</tbody>
</table>

Table 15: Current Clinical Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Previous Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marwa El-Sabbahy, MD</td>
<td>2015-2017</td>
<td>Lahey Clinic, Burlington, MA</td>
</tr>
<tr>
<td>Shaikh Hoque, MD</td>
<td>2015-2017</td>
<td>Southern NH Medical Center, Nashua, NH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>St. Luke’s Roosevelt Medical Center, New York City, NY</td>
</tr>
<tr>
<td>Anshul Bhalla, MD</td>
<td>2016-2018</td>
<td>Tufts Medical Center, Boston, MA</td>
</tr>
<tr>
<td>Patricia Nsar, MD</td>
<td>2016-2018</td>
<td>Staten Island Hospital, NY</td>
</tr>
<tr>
<td>Matthias Wacker, MD</td>
<td>2016-2018</td>
<td>University of Vermont, Burlington, VT</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 and 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;
3. Training in Presentation - participation in conferences and seminars designed to improve trainees' oral and written presentations.

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

**Research Fellowship Program Statistics**
We have 1 current research fellow in training. We received 22 applications in 2015 for 1 open research fellowship position in 2016. See Table 16 and Table 17 for listings of graduated and current research fellows.

Table 16: Graduated Research Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pranav Garimella, MD, MPH</td>
<td>2013-2016</td>
<td>Assistant Professor of Medicine University of California, San Diego, CA</td>
</tr>
<tr>
<td>Amanda Leonberg-Yoo, MD, MS</td>
<td>2014-2016</td>
<td>Assistant Professor of Clinical Medicine University of Pennsylvania, Philadelphia, PA</td>
</tr>
<tr>
<td>Rita McGill, MD, MS</td>
<td>2014-2016</td>
<td>Associate Professor of Medicine University of Chicago, Chicago, IL</td>
</tr>
</tbody>
</table>

Table 17: Current Research Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Prior Institution</th>
<th>Nephrology Mentor</th>
<th>Funding Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taimur Dad, MD</td>
<td>Tufts Medical Center, Boston, MA</td>
<td>Daniel E. Weiner, MD, MS</td>
<td>NIH T32</td>
</tr>
</tbody>
</table>

**Continuing Medical Education**

**2016 Medical Education Initiatives**
Table 18 lists the continuing education presentations given by Division faculty in 2016. The table excludes presentations given within the Division, as all faculty are expected to present one Journal Club and one Research Conference annually.

Table 18: 2016 Local, National, and International Presentations by Division Faculty

**LOCAL/REGIONAL PRESENTATIONS**

Dr. Gilbert  
Education in Nephrology  
UMass Memorial Medical Center Grand Rounds  
Boston, MA

Dr. Meyer  
The Gut, Chronic Kidney Disease and Uremia  
Tufts University Cummings School of Veterinary Medicine Renal Rounds  
Grafton, MA

Dr. Perrone  
Autosomal Dominant Polycystic Kidney Disease (ADPKD): New Directions and Therapeutic
Strategies
Tufts Medical Center Grand Rounds
Boston, MA

Predicting Disease Progression and Management of ADPKD
Rhode Island Hospital Renal Grand Rounds
Providence, RI

Using Totally Kidney Volume to Predict Disease Progression and Guide Management of ADPKD
Boston Medical Center, Boston University School of Medicine Renal Research Conference
Boston, MA

Using Total Kidney Volume to Predict Disease Progression and Guide Management of ADPKD
Massachusetts General Hospital Renal Grand Rounds
Boston, MA

Dr. Rao
Bone Biopsy in Renal Osteodystrophy—Is There an Extended Spectrum of Indications?
Tufts Medical Center Endocrinology Grand Rounds
Boston, MA

Dr. Sarnak
Cognitive Function in Chronic Kidney Disease
Beth Israel Deaconess Hospital Renal Grand Rounds
Boston, MA

Dr. Weiner
Blood Pressure Goals in the Elderly
Lowell General Hospital Medical Grand Rounds
Lowell, MA

Blood Pressure Targets in the Era of SPRINT, ACCORD, and JNC8
Tufts Medical Center Medical Grand Rounds
Boston, MA

NATIONAL PRESENTATIONS

Dr. Gilbert
Rightsizing Your Fellowship Program
Training Program Directors Retreat
ASN Kidney Week
Chicago, IL

Dr. Meyer
Unique ESRD Populations: Malnourished and Morbidly Obese
Hemodialysis University
ASN Kidney Week
Chicago, IL

The Hemodialysis Prescription: from Blood Flows to Baths.
National Kidney Foundation Spring Clinical Meetings
Boston, MA

Dialysis Nuts and Bolts: Technical Things Every Dialysis Provider Should Know
National Kidney Foundation Spring Clinical Meetings
Boston, MA
Dr. Meyer and Dr. Richardson
Patient Engagement, Patient Satisfaction, Patient Experience of Care. What’s the Difference?
National Forum of ESRD Networks’ 5th Annual Creating a Culture of Quality Conference
Webinar 1 of 3

Dr. Perrone
Predicting Disease Progression and Management of ADPKD
Keynote Address at the Jared J. Grantham Symposium, Kansas University PKD Center
Kansas City, KS

Emerging Therapies in PKD
PKD Foundation National Convention
Orlando, FL

Clinical Trials: Why YOU Should Participate
PKD Foundation National Convention
Orlando, FL

Native Nephrectomy and Kidney Transplantation: If? When? How?
PKD Foundation National Convention
Orlando, FL

Update on the Management of ADPKD in 2016 and Beyond
National Kidney Foundation Spring Clinical Meetings
Boston, MA

Incorporating Patient Perspectives to Develop Patient-Centric Therapiess
ASN Kidney Week
Chicago, IL

Dr. Richardson
Improving the Patient’s Experience of Care
Annual Dialysis Conference
Seattle, WA

Dr. Sarnak
Hypertension in the Elderly: Defining Meaningful Targets
National Kidney Foundation Annual Meeting
Boston, MA

Dr. Weiner
Practices that Work to Improve Dialysis Outcomes
ASN Kidney Week
Chicago, IL

Edematous and Hypotensive Dialysis Patients: What to Do?
ASN Kidney Week
Chicago, IL

Trends in US Hemodialysis Practices: Insights from the DOPPS
National Kidney Foundation Spring Clinical Meetings
Boston, MA

INTERNATIONAL PRESENTATIONS

Dr. Perrone
The PKD Outcomes Consortium: TKV as a Biomarker for Patient Selection
4th ADPKD in Europe Consortium Symposium
Barcelona, Spain
2016 Continuing Medical Education Initiatives

Editorial Board Appointments

American Journal of Kidney Diseases

For the decade ending at the close of 2016, the Division housed the editorial office of the American Journal of Kidney Diseases (AJKD), the official journal of the NKF. Over this time period, Division members led a multi-institution effort that established AJKD as the top-ranked medical journal dedicated to clinical nephrology. The Division-led team was awarded responsibility for the journal as of the January 2007 issue, and, in an event unprecedented in AJKD’s history, was selected for a second five-year term in 2012 as part of a competitive renewal process. With the publication of the team’s final journal issue in December 2016, AJKD ended its successful stint at the Division.

For the entire 10-year period AJKD was at the Division, Dr. Levey was the Editor-in-Chief and Dr. Weiner served as the Deputy Editor. Other Tufts Medical Center–based editors of AJKD included Dr. Gilbert and Mr. Tighiouart.

During the time that Dr. Levey was Editor-in-Chief of AJKD, readership and impact of the journal grew robustly. Comparing 2015 to 2007, the number of full-text online accesses of AJKD articles increased nearly 2.5-fold. During that same period, the total number of citations to AJKD articles grew by 27%. The overall number of submissions increased by 30%, with particularly rapid expansions in manuscripts from Asia-Pacific. As a result of these burgeoning submissions, the journal progressively increased its selectivity, and at the close of Dr. Levey’s term, just 12% of full-length research articles met the threshold for publication.

As Editor-in-Chief, Dr. Levey ensured that AJKD maintained a close alignment with the goals of the NKF. His term saw the launch of several new educational features, as well as a second edition of the AJKD Atlas of Renal Pathology, a definitive resource for nephrologists. Under his direction, AJKD began a tradition of publishing articles contributed by NKF Presidents and Spring Clinical Meeting Awardees. In celebration of the 10th anniversary of NKF’s KDOQI (Kidney Disease Outcome Quality Initiative) 2002 clinical practice guideline on chronic kidney disease (CKD), AJKD featured a series of commentaries from the US and international kidney communities on its impact. With the internationalization of guideline development, AJKD began publishing commentaries by KDOQI on these new, coordinated guidelines. Through the years, AJKD published reports of NKF conferences and workshops with US governmental agencies on public health issues, including an NKF–Centers for Medicare & Medicaid Services workshop on comprehensive public health strategies for CKD and NKF–US Food and Drug Administration workshops on proteinuria as a surrogate outcome in CKD, glomerular filtration rate decline as an end point for clinical trials in CKD, and patient-reported outcomes in CKD. AJKD continued its tradition of publishing the US Renal Data System Annual Data Report and later added...
the data report of the US Peer Kidney Care Initiative and the inaugural Chinese Annual Data Report. Throughout Dr. Levey’s term, *AJKD* continued to be a strong advocate of disease awareness activities. Over the decade of Dr. Levey’s editorial leadership, *AJKD* featured over a dozen publications highlighting the World Kidney Day initiative, most recently with a call for better recognition and treatment of kidney disease in children.

At the close of Dr. Levey’s editorship, the Impact Factor for *AJKD* (a measure of its influence on the medical literature), reached a new high of 6.269, underlining the journal’s remarkable growth and development while based at Tufts Medical Center.

### 2016 Education Awards and Honors

- **Dr. Gilbert** was promoted to Professor of Medicine at TUSM.
- **Dr. Gilbert** received the TUSM Senior Class (M’16) Outstanding Teaching in the Pre-clerkship Years for the School of Medicine. This is an incredible honor and is the 3rd time that a TUSM Senior Class has chosen Scott (Class of 2009 and Class of 2014) to receive this award.
- **Dr. Gilbert**, Dr. Madias, and Dr. Sarnak received the International Society of Nephrology (ISN) & American Nephrologists of Indian Origin (ANIO) Award for Outstanding Contributions in Nephrology Education.
- Every year, the 3rd year medical students give evaluations of their experiences during their clerkship. The following division members have been recognized for their teaching.

<table>
<thead>
<tr>
<th>Name</th>
<th>Tally</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Gilbert</td>
<td>8</td>
<td>Excellence</td>
</tr>
<tr>
<td>Lesley Inker</td>
<td>1</td>
<td>Notable</td>
</tr>
<tr>
<td>Dana Miskulin</td>
<td>2</td>
<td>Accomplished</td>
</tr>
<tr>
<td>Mark Sarnak</td>
<td>3</td>
<td>Accomplished</td>
</tr>
<tr>
<td>Daniel Weiner</td>
<td>1</td>
<td>Notable</td>
</tr>
<tr>
<td>Seth Wright</td>
<td>3</td>
<td>Accomplished</td>
</tr>
</tbody>
</table>

**Criteria for Teaching Citations:**

A **notable teaching citation** is the result of one student recommendation.  
An **accomplished teaching citation** is the result of two to four student recommendations.  
An **excellence in teaching citation** is the result of five or more student recommendations.
Public Policy
2016 Public Policy Initiatives Accomplishments

- As a result of years of work, with which Dr. Perrone has been extensively involved, the FDA approved in final form the qualification of kidney volume as a prognostic biomarker in PKD. This biomarker has already been approved by the European Medicines Agency. The complete announcement may be found here: https://www.federalregister.gov/documents/2016/09/16/2016-22347/qualification-of-biomarker-total-kidney-volume-in-studies-for-treatment-of-autosomal-dominant

Continuing Public Policy Initiatives

ASN Public Policy Board

In 2016, Dr. Weiner was a member of the American Society of Nephrology’s Public Policy Board and Chair of the ASN’s Quality Metrics Task Force. Beginning in 2017 and following a restructuring of ASN committees, he will be the chair of a new ASN committee titled the Quality, Patient Safety and Clinical Practice Committee. The QPSCPC works closely with the ASN executive council to advance potential care models to benefit kidney disease patients. Additionally, the QPSCPC leads ASN’s efforts to promote high level kidney care by interfacing with CMS and other stakeholders on regulatory processes, like MACRA implementation in the Quality Payment Program, the ESRD Quality Incentive Program (QIP) and Prospective Payment System (PPS), other quality metrics programs, and the Physician Fee Schedule. Dr. Weiner also represents ASN as a voting member in Kidney Care Partners (KCP), an organization that brings together stakeholders across the kidney community.

Chronic Kidney Disease in Nicaragua

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

DCI Information Systems

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

DCI Outcomes Monitoring Program

Dr. Richardson directs the corporate-wide DCI Outcomes Monitoring Program. The program oversees patient-reported outcomes using surveys to improve care. Health-related quality of life is assessed using the SF-36+24 or the KDQOL-36 questionnaire. Dr. Richardson and her staff work with DCI Corporate and clinic-level staff to incorporate the results of the health-related quality of life surveys into patient care and quality improvement initiatives. Patient experience is evaluated bi-annually using the CMS-mandated ICH CAHPS survey. Data are collected from all DCI chronic dialysis units.

Dr. Miskulin leads the Comorbidity Assessment Program, as part of the Outcomes Monitoring Program. 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. 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.
Philanthropic Support of the Division
Continuing Philanthropic Initiatives
Driscoll Family Fund

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

We are extremely honored by the following Founding Gift to The Driscoll Family Fund in Nephrology:
- Mr. and Mrs. Robert Driscoll (Fund Founders)

2016 Driscoll Family Fund Updates
- In 2016, money from the Driscoll Family Fund supported Dr. Leonberg-Yoo’s project Association of urinary sodium and serum aldosterone with clinical outcomes.
- We are grateful for the following gifts to the Driscoll Family Fund in 2016:
  - Ms. Lori and Mr. Bob Driscoll
  - Ms. Christie and Mr. Chris Blier

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 emergency medically necessary support to patients with kidney disease for which there are no other sources of support. A committee comprised of clinicians, nurses and social workers has the discretion to meet patient’s needs based on the Inker Family Fund criteria.

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

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

2016 Inker Family Fund Updates
- We are grateful for the many donations to the Inker Family Fund in 2016:
  - Anonymous
  - Ms. Elizabeth Bury
  - Mrs. Lorna Davies
  - Dr. Scott Gilbert
  - Dr. Lesley Inker
  - Ms. Sue Ann A. Leong-Tsan
  - Dr. Andrew S. Levey
  - Dr. Rita McGill
  - Dr. Klemens Meyer
  - Dr. Michelle M. Richardson
  - Ms. Jasmine Rollins
  - Dr. Mark J. Sarnak
  - Dr. Ronald D. Perrone
  - Mr. John N. Previti
  - Mr. Gregory Testa
  - Mrs. Geneva Tucker
  - Mr. Joseph C. Valencia
  - Dr. Dan Weiner
  - Ms. Elizabeth Wenger
  - Dr. Seth Wright
  - Nomura Research Institute America, Inc.
  - The Constance Marchiel Trust
  - Island Foundation, Inc.

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.

**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

2016 William B. Schwartz Fund Updates
- In 2016, money from the William B. Schwartz Fund supported Dr. Leonberg-Yoo’s project Association of urinary sodium and serum aldosterone with clinical outcomes.
- We appreciate receiving gifts in 2016 from the following:
  - Dr. Howard B. Garfinkel
  - Mr. Douglas Gooding

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:

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

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

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

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

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

Adeera Levin, MD Visiting Professor  
Staff nephrologist at St. Paul’s Hospital  
Professor at the University of British Columbia in Vancouver, British Columbia. *Global Burden of CKD: Challenges and Opportunities.*

7th Annual John T. Harrington Grand Rounds—2013  
Josef Coresh, MD, PhD Visiting Professor  
G.W. Comstock Professor of Epidemiology, Biostatistics & Medicine
Director, George W. Comstock Center for Public Health Research and Prevention and the Cardiovascular Epidemiology Training Program
Johns Hopkins University Baltimore MD
*Chronic Kidney Disease — A Challenge for All Ages*

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

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

**10th Annual John T. Harrington Grand Rounds—2016**
John Gill, MD, MS
Professor with Tenure
Department of Medicine, Division of Nephrology
Research Scientist Center for Health and Evaluation and Outcome Science University of British Columbia
Vancouver, BC Canada
*Living Kidney Donation*

**2016 Harrington Fund Updates**
- We are excited to announce that Ebony Boulware, MD, MPH will be presenting at our 2017 World Kidney Day Rounds and our 11th Annual John T. Harrington Grand Rounds. Dr. Boulware is a Professor of Medicine, Chief of the Division of General Internal Medicine in the Department of Medicine, Vice Dean for Translational Science and Associate Vice Chancellor for Translational Research in the School of Medicine at Duke University. Dr. Boulware’s research focuses on mechanisms to improve the quality and equity of care and health outcomes of patients and populations with chronic diseases such as chronic kidney disease and hypertension.
- We are honored to have received the following new gift in 2016:
  - Dr. Gill, a Transplant Nephrologist from the University of British Columbia and former Division fellow, was the visiting professor for the 10th Annual John T. Harrington Grand Rounds and graciously declined his honorarium.

**The Hortense “Diddy” Seybold Fund for Staff Enrichment in Nephrology**
The *Hortense “Diddy” Seybold 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

2016 Seybolt Fund Updates

- In 2016, proceeds from the Diddy Seybolt Fund were used for a variety of educational purposes for dialysis clinic staff.

Friends of the Division and DCI

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

- In 1986, on the occasion of the opening of the DCI’s first dialysis clinic in Boston, Mr. and Mrs. John P. Brogan donated televisions for patients in the clinic.

Information to Make Gifts to the Division

The Division is always appreciative of new gifts. If you wish to make a contribution to the Friedman Fund, 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.alumniconnections.com/donate/tufts/ or mail it to:

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

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