We dedicate this year’s report to the Kidney Transplantation Team at Tufts Medical Center.
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Message from the Chief

Welcome to our 9th Annual Report. The Division is comprised of 21 full-time and part-time physicians and scientists and 37 staff to support our clinical, research, educational and administrative endeavors, which are described in the following pages. Our family tree continues to grow; 6 more babies joined the Division in 2010 and another in early 2011. See the new additions in our family album (pages 9-10).

2011 marks the 40th anniversary of kidney transplantation at Tufts, and we dedicate this year’s annual report to all members of the Divisions of Nephrology and Transplant Surgery at Tufts Medical Center who take care of kidney transplant recipients and donors (pages 3-6, 34, 38). We plan to have a celebration during the coming year to which you will be invited.

As in previous years, caring for patients remains the core of what we do. Research, education, and public policy round out our academic mission, and we have much to be proud of in 2010. Major clinical events of this year include continued growth of clinical services at Tufts Medical Center and DCI outpatient dialysis units in Boston and Somerville (page 38), and the Division being ranked in the 50 best hospitals for kidney disorders in US News and World Report for the second year in a row. Research highlights include the conclusion of several NIH Career Development (K23) Awards, the departure of Dr. Menon and consequent reduction in total research funding, offset by new research grants to new and established investigators. We are especially pleased to report the successful renewal of the NIDDK-sponsored training grant, now in it's 11th year (pages 48 and page 61). We are also proud to report successful renewal of grants and contracts with our external partners, including the Tufts Center for Kidney Disease Guideline Development and Implementation, now in its 8th year (pages 63-64, 76-78), and the DCI Outcomes Monitoring Program, now in its 18th year (page 75). We have been awarded a second 5-year term as editorial home for the American Journal of Kidney Diseases, now in its 4th year (pages 24, 70-71). This year, Dr. Bertram L. Kasiske from the Division of Nephrology at Hennepin County Medical Center and the University of Minnesota in Minneapolis was the Harrington Visiting Professor to celebrate World Kidney Day in March (pages 84-85). We also continue to report on philanthropic support to the Division, including the dedication this year of The Stevens-Inker Family Fund for assistance to patients with kidney disease and their families at Tufts Medical Center and DCI (pages 79-80).

This was another year rich with awards to Division members. Dr. Perrone received the Distinguished Faculty Award, one of the most important honors the Tufts University School of Medicine can bestow. Dr. Sarnak was promoted to Professor, Dr. Uhlig was promoted to Associate Professor, and Dr. Rao received a PhD the Sackler School of Graduate Medical Sciences for her work in genetic epidemiology. Dr. Gilbert received
his sixth teaching award for Excellence in Teaching from students at Tufts University School of Medicine and was appointed as a Tisch College Faculty Fellow. Drs Perrone, Sarnak and I were recognized in Boston Magazine among Boston’s best nephrologists; and the dialysis program exceeded the 2010 CMS stretch goal of 66% for dialysis treatments conducted using a fistula. I will be recognized in April 2011 at the local NKF Spring on the Park Gala for long-term academic achievements, passion and dedication to the kidney community, and commitment to furthering the mission of the National Kidney Foundation.

I am pleased to report that my wife, Dr. Roberta Falke, and I celebrated the first anniversary of our three-pair kidney exchange in December. We are both well and are grateful for the excellent care and support we have received here at Tufts Medical Center. We have had an active year, speaking on behalf of organ donation, paired kidney exchange and research in polycystic kidney disease at events coordinated by the National Kidney Foundation, Polycystic Kidney Disease Foundation and New England Organ Bank. This year I celebrated my 60th birthday with the Division at Jacob Wirth’s, an old favorite. Please see pages 7-8 for pictures.

Once again, I thank Dr. Richardson for preparing this year’s Annual Report. I hope you enjoy learning about our accomplishments. As always, I welcome your feedback on any other aspects of our Division that you would like to hear about. We wish you and your family a happy and successful 2011!

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
40 Years of Kidney Transplantation

In 2011, the kidney transplantation program at Tufts Medical Center will celebrate its 40th anniversary. A celebration is being planned for October 2011.

Tufts Medical Center Kidney Transplantation Program Facts

- The program started in October 1971

1168 kidney transplants have been performed from the program’s beginning through December 2010.
• ~40 kidney transplants per year make the program mid-sized by national standards.

“I feel our program comes as close as possible to offering the best of both worlds. We have enough history and experience to take on the toughest cases, yet we're small enough to get to know our patients and give them personalized attention.”

Richard Rohrer, MD

• About 20% of kidney transplants at the Medical Center are from living unrelated donors, 30% are from living related donors, and the remaining 50% are from deceased donors.

• Our outcomes are excellent. Live-donor kidney transplants consistently have a greater than 95% success rate and deceased-donor transplants have a 90% success rate.

• Tufts Medical Center was a pioneer in advancing the idea of organ donor exchange. The system set up at Tufts Medical Center—the New England Program for Kidney Exchange—is now managed by the New England Organ Bank.

“Patients would come in to see about a transplant, and we’d meet with their family and friends who wanted to be donors. When there was no match, we'd end up sending away healthy, willing donors. Sometimes we'd get a donor with blood group A and a recipient with group B, then by chance a month later we'd get the exact opposite. About 10 years a light bulb went off—why can't we arrange a system to swap them?”

Richard Rohrer, MD

Good Medicine Interview
2010 Kidney Transplantation Updates

There were several high-profile events featuring the kidney transplantation program at Tufts Medical Center in 2010.

- A very special story featuring Tufts Medical Center and the Division of Nephrology appeared on the front page of the Sunday *Boston Globe* on March 28th. This story highlighted an amazing gift three couples gave each other – the gift of life – a donated kidney. What made this story even more special for Tufts Medical Center is that Dr. Andy Levey, one our renowned kidney specialists, was not the doctor in the story but one of the donors. Dr. Levey’s wife was in need of a kidney transplant; however, Dr. Levey was not a match to donate to her. A match was found among with another couple also receiving care at Tufts Medical Center; Dr. Levey could donate to the husband in this couple, and the wife in that couple could donate to Dr. Levey’s wife, Roberta – this is called a kidney “swap.” However, in working with the New England Program for Kidney Exchange and the New England Organ Bank, the hospital learned that at the Lahey Clinic a wife was wanting to donate to her husband but couldn’t. The possibilities of including that couple in this miracle were studied and it was determined that a donation “circle” could be created, meeting the needs of all three couples. In December four surgeries took place at Tufts Medical Center (two donor surgeries and two recipient surgeries) and two surgeries happened at Lahey Clinic (one donor and one recipient surgery). Two kidneys traveled the highways to and from Tufts MC and Lahey. It truly was a day of giving and miracles. The full story was published in the Boston Globe and there is also a video on www.Boston.com. The video features Dr. Levey and Dr. Richard Rohrer, who performed two of the donor surgeries. The Division extends a special thank you to all our wonderful staff, especially the transplant coordinators, who were with these families every step of the way.

- The Fall 2010 issue of Tufts Medical Center’s *Working Together is Good Medicine*, the newsletter for referring physicians, featured the kidney transplantation program.
Left to Right: Drs. Levey, Perrone, and Rohrer
Andy’s 60th Birthday Party

Family, friends, Division members, and others from Tufts Medical Center celebrated Andy’s 60th birthday at Jacob Wirth’s restaurant.
Division Family Tree

2010 Additions

The Division family continued to grow in 2010, with 6 more babies being born to or adopted by Division members. In the past 4 years, 26 babies have joined the Division. The girls have a slight edge on the little league team—Girls 14; Boys 12!

Nehan born to Gautham Viswanathan & Malar Ramasamy
February 3rd at 3 pm; 21.5"

Nadeem born to Cynthia Sfeir
March 16th at 6:04 pm; 8lbs 7oz, 21"

Leslieanne born to Ashley & Lesley Lacatte
March 8th 6:19 am; 5 lbs 13 oz, 19"

Anushya born to Smita & Narayan Padala
April 18th at 2:50 am; 8.3 lbs, 20.5"
Early 2011 Additions

Kushal born to Ashish Upadhyay & Mollica Manandhar
April 22nd at 12:10 am; 7lbs 10 oz, 20.5"

Clara Ann born to Elizabeth & Matt Frank
December 27th at 3:53 pm; 7lbs 4 oz, 21"

Anna Gracyn born to Julie & Charlie Driggs
February 2nd at 12:58 am; 8lbs, 3 oz
Administration

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

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

### Table 1: Onsite Locations of Division Activities at Tufts Medical Center

<table>
<thead>
<tr>
<th>Building</th>
<th>Floor</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 Kneeland Street</td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td><em>American Journal of Kidney Diseases</em> Editorial Offices</td>
</tr>
<tr>
<td></td>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Kidney and Blood Pressure Center (KBPC) and KBPC Staff</td>
</tr>
<tr>
<td></td>
<td>5&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Outpatient dialysis services provided by DCI</td>
</tr>
<tr>
<td></td>
<td>5&lt;sup&gt;th&lt;/sup&gt; &amp; 6&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Division support operations and physician and research staff offices</td>
</tr>
<tr>
<td>Ziskind</td>
<td>7&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Dr. Balakrishnan’s research lab</td>
</tr>
<tr>
<td>Floating</td>
<td>7&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Inpatient dialysis services provided by DCI</td>
</tr>
<tr>
<td>North</td>
<td>7&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Primary location for inpatient ward service</td>
</tr>
</tbody>
</table>

### Table 2: Offsite Clinical Nephrology Activities Affiliated with Tufts Medical Center

<table>
<thead>
<tr>
<th>Area</th>
<th>Physicians</th>
<th>Practice Sites</th>
<th>Services Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concord</td>
<td>Andrei Kouznetsov, MD</td>
<td>• Pratt Medical Group Nephrology and Hypertension</td>
<td>• Outpatient nephrology</td>
</tr>
<tr>
<td></td>
<td>Valerie R. Price, MD</td>
<td>• Emerson Hospital, Whittier Rehab</td>
<td>• Inpatient consultation and dialysis services</td>
</tr>
<tr>
<td></td>
<td>Klemens B. Meyer, MD</td>
<td>• DCI Walden Pond</td>
<td>• Outpatient dialysis services</td>
</tr>
<tr>
<td>Greater Boston</td>
<td>Michael B. Cohen, MD</td>
<td>• Hospital-based clinics at Lawrence Memorial, Melrose-Wakefield and St. Elizabeth’s Medical Center hospitals</td>
<td>• Outpatient nephrology</td>
</tr>
<tr>
<td></td>
<td>Anthony Z. Dash, MD</td>
<td>• St. Elizabeth’s Medical Center, Kindred, Lawrence Memorial, Melrose-Wakefield, Mt. Auburn and Whidden hospitals</td>
<td>• Inpatient consultation and dialysis services</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• DCI Ball Square, St. Elizabeth’s Medical Center, Cambridge, Malden, Medford, Saugus, Stoneham, and Woburn dialysis units</td>
<td>• Outpatient dialysis services</td>
</tr>
</tbody>
</table>
Staffing

Physician Staff

Andrew S. Levey, MD, Chief
Dr. Gerald J. and Dorothy R. Friedman Professor of Medicine

Ronald D. Perrone, MD, Associate Chief Professor of Medicine

V. S. Balakrishnan, MD, MRCP, PhD Associate Professor of Medicine

Jeanine A. Carlson, MD Associate Clinical Professor of Medicine

Michael B. Cohen, MD Assistant Professor of Medicine

Anthony Z. Dash, MD Assistant Professor of Medicine

Scott J. Gilbert, MD, FASN Associate Professor of Medicine

Annamaria T. Kausz, MD, MS Assistant Professor of Medicine

Andrei Kouznetsov, MD Assistant Professor of Medicine

Amy B. Kuhlik, MD Assistant Professor of Medicine

Klemens B. Meyer, MD Dean for Students Affairs, TUSM

Dana C. Miskulin, MD, MS, FRCP(C) Professor of Medicine

Brian J.G. Pereira, MD, MBA Assistant Professor of Medicine

Monika Pilichowska, MD, PhD Assistant Professor of Pathology

Valerie R. Price, MD Assistant Clinical Professor of Medicine

Madhumathi Rao, MD, PhD, FRCP(E) Professor of Medicine

Mark J. Sarnak, MD, MS, FASN Associate Professor

Carmen Castaneda Sceppa, MD, PhD Department of Health Sciences

Northeastern University

Adjunct Associate Professor of Nutrition

Lesley A. Stevens, MD, MS, FRCP(C) Friedman School of Nutrition Science and Policy

Katrin Uhlig, MD, MS Assistant Professor of Medicine

Ashish Upadhyay, MD Associate Professor of Medicine

Daniel E. Weiner, MD, MS Assistant Professor of Medicine

Special and Scientific Staff

Michelle M. Richardson, PharmD, BCPS, FCCP Assistant Professor of Medicine

Associate Physician Staff

Bertrand L. Jaber, MD, MS, FASN Associate Professor of Medicine

Nicolaos E. Madias, MD, FASN Maurice S. Segal, MD Professor of Medicine

Chairman, Department of Medicine

Academic Dean of TUSM

Steward St. Elizabeth’s Medical Center
Adjunct Physician Staff

Miguel Cendoroglo, MD  
Associate Professor of Medicine at the Division of Nephrology  
Federal University of Sao Paulo  
Medical Director and Superintendent  
Hospital Israelita Albert Einstein  
Sao Paulo, Brazil  
Board Member  
National Association of Private Hospitals in Brazil

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

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

Gregorio T. Obrador, MD, MPH  
Professor of Medicine  
Dean  
Panamerican University School of Medicine  
Mexico City, Mexico

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

Elizabeth J. Fitzgerald, MPA  
Business Operations Manager III  
William B. Schwartz Division of Nephrology and Pratt Medical Group Nephrology and Hypertension, Concord

Krista Boisclair, MS  
Research Administrator II

Teresa Hamelin  
Research Administrator II
Faculty Descriptions

Andrew S. Levey, MD

Dr. Levey’s interests are in patient care, research, clinical practice guidelines, training in research and education, and health care policy related to chronic kidney disease (CKD).

His patient care interests are in CKD, diabetic kidney disease, polycystic kidney disease, and systemic lupus erythematosus.

His research interests include measurement and estimation of kidney function, epidemiology of CKD, treatments to slow the progression of CKD, cardiovascular disease in CKD, nutrition in CKD, and assessment of outcomes in patients treated by dialysis and kidney transplantation. Dr. Levey has been at the forefront of the development of equations to estimate glomerular filtration rate (GFR) from serum creatinine using large databases, including the widely-used Modification of Diet in Renal Disease (MDRD) Study equation. He is now leading the NIDDK-sponsored CKD Epidemiology Collaboration (CKD-EPI) to pool databases from other studies to develop improved estimating equations based on serum creatinine and cystatin C. In addition, he has a long history of participating in multicenter clinical trials and clinical investigations. He was the principal nephrologist co-investigator for the NIDDK-sponsored MDRD Study, a randomized trial of diet and blood pressure control in CKD. He was Principal Investigator for the ACE Inhibition in Progressive Renal Disease (AIPRD) Study Group, a collaboration of investigators who have pooled individual patient data on clinical trials of ACE inhibitors in nondiabetic kidney disease. He was Principal Investigator for the NIDDK-sponsored Hemodialysis (HEMO) Study, comparing the standard dose of dialysis with high dose of dialysis. He was also the principal nephrologist co-investigator for the AHRQ-sponsored CHOICE Study, a Patient Outcomes Research Team, studying kidney failure treated by dialysis. More recently, he has served as a member of the Executive Committees of the Trial to Reduce Cardiovascular Events with Aranesp Therapy (TREAT), comparing erythropoiesis stimulating agents to placebo for treatment of anemia in diabetic kidney disease and Folic Acid for Vascular Outcome Reduction in Transplantation (FAVORIT), comparing folic acid to placebo in kidney transplant recipients.

Dr. Levey is a widely recognized authority on clinical practice guidelines in CKD. He led the National Kidney Foundation (NKF) Task Force on Cardiovascular Disease in 1998. He was the Chair for two NKF Kidney Disease Outcome Quality Initiation (KDOQI) Work Groups. “Chronic Kidney Disease: Evaluation, Classification and Stratification of Risk” was published in 2002. “Hypertension and Antihypertensive Agents in Chronic Kidney Disease” was published in 2004. He is a member of the ongoing KDIGO Workgroups on Acute Kidney Injury and Chronic Kidney Disease Update. He has led three Kidney Disease Improving Global Outcomes (KDIGO) conferences. In 2004, the conference addressed definition and classification of CKD and in 2006 the conference addressed public health approaches and initiatives. In 2009, the conference addressed prognosis in CKD. He is Director of the Tufts Center for Kidney Disease Guideline Development and Implementation at Tufts Medical Center.

Dr. Levey’s interests in training are focused primarily at the level of post-graduate fellowship training and mentoring junior faculty. He directs the large research fellowship-training program of the Division. He is Principal Investigator of the Division’s 15-year NIDDK grant (T32) “Epidemiology, Clinical Trials and Outcomes Research”. The research training program is also funded by grants and contracts from foundations and industry.
Dr. Levey’s contributions to policy are focused primarily on guideline implementation, quality improvement, and public policy related to CKD. He was a member of the National Kidney Disease Education Program (NKDEP) of the NIDDK. He has been the Editor-in-Chief of the American Journal of Kidney Diseases since 2006, and was formerly Associate Editor for Kidney Disease and Hypertension for the Annals in Internal Medicine. He co-chaired the 2007 technical expert panel sponsored by the Centers for Disease Control and Prevention on “Comprehensive Public Health Strategies for Preventing the Development, Progression, and Complications of Chronic Kidney Disease” and the 2008 workshop sponsored by NKF and Food and Drug Administration on “Proteinuria as a Surrogate Outcome in Chronic Kidney Disease.”

Ronald D. Perrone, MD

Dr. Perrone’s patient care interests are in polycystic kidney disease, general nephrology, and kidney transplantation medicine. He is the Director of the Polycystic Kidney Disease Center.

His research interests are largely focused in the area of polycystic kidney disease, including slowing progression and determining the natural history of the extrarenal complications. In prior studies, he addressed the mortality of extrarenal complications of polycystic kidney disease after kidney failure treated by dialysis. Dr. Perrone also is the Principal Investigator of the Boston Patient Care Center of a NIH-funded multi-center clinical trial (HALT Progression in PKD, part of the Polycystic Kidney Disease Clinical Trials Network). This study uses angiotensin converting enzyme inhibitors in combination with angiotensin receptor blockers to slow the progression of polycystic kidney disease and utilizes the unique endpoint of kidney volume growth as assessed using magnetic resonance imaging. Tufts Medical Center is one of the four national HALT-PKD Study centers that is conducting this 6-year, $25 million study sponsored by the NIH. Drs. Perrone (the PI) and Miskulin direct the study that started in the winter of 2006.

Dr. Perrone is the Tufts Medical Center Principal Investigator and member of the global Steering Committee for the TEMPO 3/4 study. TEMPO 3/4 is a global trial that is addressing the efficacy of the vasopressin-receptor antagonist tolvaptan to slow progression of polycystic kidney disease. The unique endpoint of kidney volume growth will be assessed using magnetic resonance imaging. Tufts Medical Center is one of 100 international TEMPO 3/4 Study centers.

Dr. Perrone is the clinical leader of the Polycystic Kidney Disease Database Consortium sponsored by the Polycystic Kidney Disease Foundation. This group is composed of representatives from FDA, the Critical Path Institute, the Clinical Data Interchange Standards Consortium, multiple pharmaceutical companies, and representatives of Mayo Clinic, Emory University, Tufts Medical Center, and the University of Colorado Medical Center. The goal is to develop consensus data elements to use in clinical investigation of polycystic kidney disease; using these consensus data elements, existing data from long-term registries and clinical trials will be combined and used to develop a quantitative disease model to assess the impact of increased total kidney volume in patients with polycystic kidney disease.

Vaidyanatha S. Balakrishnan, MD, MRCP, PhD

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

Jeanine A. Carlson, MD
Dr. Carlson’s primary appointment is within the Division of General Medicine and her clinical
practice is within the Pratt Diagnostic Center. She continues to be an active nephrologist, with
particular expertise in the medical complications of pregnancy. The Pratt Diagnostic Center is a
concierge-style medical practice that is offered to patients who want to spend more time with
their doctors, while exploring preventative and wellness techniques. Patients pay an annual fee
for this service, and the funding benefits Tufts Medical Center's primary care practice, General
Medical Associates.

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

Anthony Z. Dash, MD
Dr. Dash practices primarily at Lawrence Memorial Hospital and St. Elizabeth’s Medical Center
(SEMC). He consults in both the inpatient and outpatient settings on the care of patients with
kidney disease, hypertension, and those treated with hemodialysis and peritoneal dialysis. Dr.
Dash is the Co-Medical Director at the DCI Ball Square dialysis unit in Somerville.

Scott J. Gilbert, MD, FASN
Dr. Gilbert coordinates educational activities within the Division. He is the Director of the
Fellowship Training Program and coordinates house staff nephrology education. He oversees
resident rotations on the inpatient Ward and Consult services and the outpatient Kidney and
Blood Pressure Center (KBPC). Dr. Gilbert is active in reforming the educational curriculum at
Tufts Medical Center for interns, residents, and fellows. At TUSM, Dr. Gilbert is course director
of Pathophysiology, section leader of Renal Pathophysiology, and coordinates the fourth year
Consultative Nephrology elective. He has been instrumental in the development and
introduction of the new medical school curriculum. 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. His clinical interests are the treatment of CKD, renal artery stenosis, hemodialysis,
and transplantation. Dr. Gilbert’s research interests include the management of lupus nephritis
and the treatment of renal artery stenosis. Dr. Gilbert is an Associate Professor of Medicine at
TUSM.
Bertrand L. Jaber, MD, MS, FASN
Dr. Jaber’s primary appointment is in the Department of Medicine at SEMC where he serves as Vice Chair for Clinical Affairs in the Department of Medicine and he also directs the Kidney and Dialysis Research Laboratory. His research laboratory focuses on the potential utility of genetic, plasma and urinary markers in the prediction of development, early detection, and severity of acute kidney injury as well as adverse clinical outcomes. He also conducts meta-analyses on preventive and treatment strategies for acute kidney injury. He has also been examining the role of more frequent hemodialysis for the treatment of chronic kidney failure. Dr. Jaber is co-editor for the American Journal of Kidney Diseases.

Annamaria T. Kausz, MD
Dr. Kausz is Executive Director of Clinical Research at AMAG Pharmaceuticals, Inc; its chief therapeutic product is an intravenous iron product aimed at optimizing the management of anemia in patients with chronic kidney disease. She remains affiliated with the Division, participating in patient care, research, and other academic activities. Her research has encompassed the evaluation of the care of patients with CKD at all stages, including examination of the impact of the complications associated with decreased kidney function and comorbid conditions on outcomes among patients with CKD. Dr. Kausz’s clinical interests are in CKD, dialysis, transplantation, and pediatric nephrology.

Andrei Kouznetsov, MD
Dr. Kouznetsov practices at Emerson Hospital and the Pratt Medical Group Nephrology and Hypertension office in Concord. Dr. Kouznetsov is also the Associate Medical Director of Walden Pond DCI in Concord. His clinical specialties are CKD, hypertension, dialysis, transplantation, and general nephrology.

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

Nicolaos E. Madias, MD, FASN
Dr. Madias’ primary appointment is in the Department of Medicine at St. Elizabeth’s Medical Center (SEMC). He is Chairman of the Department of Medicine at SEMC, the Maurice S. Segal, MD Professor of Medicine at TUSM, and the Academic Dean of TUSM at SEMC. Dr. Madias is interested in the broad field of acid-base and electrolyte metabolism. He is pursuing several projects on the epidemiology and management of hyponatremia and the assessment of acid-base disorders.

Klemens B. Meyer, MD
Dr. Meyer is Director of Dialysis Services at Tufts Medical Center, Medical Director at Dialysis Clinic Inc. (DCI) Boston and DCI Walden Pond, and Medical Director for the Home Dialysis Program at DCI Ball Square. He is 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 and 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, guiding the work of a team of 64
information technology staff and four nursing informatics specialists. Dr. Meyer currently serves on the Board of Directors of the ESRD Network of New England. He is President-Elect of the Board of Directors of the National Forum of ESRD Networks, and represents the Forum on the United States Renal Data System External Advisory Committee.

Dana C. Miskulin, MD, MS, FRCP (C)

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

Brian J.G. Pereira, MD, MBA

Dr. Pereira is President and Chief Executive Officer of AMAG Pharmaceuticals, Inc, and retains his appointment within the Division. He has three major areas of research interest. In the laboratory he is interested in cytokines and cellular mechanisms in dialysis; his work in clinical trials focuses on hepatitis in dialysis and transplantation; and finally his interest in outcomes and economics focus on the indices and costs of care among patients with CKD. He has mentored more than 25 post-doctoral trainees, the majority of who are in senior leadership positions in academia and industry in the US and abroad. In addition to the Board of Directors of AMAG Pharmaceuticals, he also serves on the Board of Directors of Biodel, and is Chairman of the Board of the Harvard-MIT Biomedical Enterprise Program.

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 kidney biopsy conference at regular intervals for Division members. Her current research studies include renal involvement in lymphoproliferative disorders, autoreactive B-cell clones in systemic lupus erythematosus, and IgA nephropathy.

Valerie R. Price, MD

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

Madhumathi Rao, MD, PhD, FRCP (E)

Dr. Rao's research interests include the metabolic complications of CKD and their genetic basis including the role of mitochondrial genetic injury in the complications and progression of CKD. She is a recipient of a K23 career development award from the NIDDK to study candidate genetic polymorphisms in cardiovascular and kidney disease progression among patients with CKD and diabetic kidney disease, and an R-21 award and the NKF Young Investigator award, to study the role of mitochondrial injury in the anemia of CKD. In 2010, Dr. Rao successfully defended her PhD studies on the genetics of kidney disease in the Sackler Clinical and Translational Science Graduate Program, which is part of the Tufts CTSI.
Michelle M. Richardson, PharmD, FCCP, BCPS

Dr. Richardson’s research interest is the study of health-related quality of life and satisfaction in patients with CKD. She is the Tufts Medical Center Project Director for the NIH-funded study entitled Functional Health Computerized Adaptive Testing in Chronic Kidney Disease. As a pharmacist, her clinical interests involve appropriate dosing and use of medications in patients with CKD. Dr. Richardson is the director of the DCI Outcomes Monitoring Program (OMP). She is responsible for overseeing patient-based outcomes at DCI. She is also the Director of Communications for the Division and is responsible for producing this Annual Report and maintaining the Division’s Web site.

Mark J. Sarnak, MD, MS, FASN

Dr. Sarnak is the Director of Research in the Division of Nephrology and the Associate Director of the Research Training Program. In 2010, Dr. Sarnak was promoted to Professor of Medicine at TUSM. He is interested in cardiovascular epidemiology in CKD. His research focuses on traditional and non-traditional cardiovascular risk factors in CKD, aging and kidney disease, and cognitive function and CKD. Drs. Sarnak and Levey have undertaken the Cardiovascular Disease Pooling Project, pooling multiple NHLBI databases to evaluate the effect of kidney function and anemia on cardiovascular disease. Drs. Sarnak and Weiner collaborate with Drs. Folstein and Rosenberg to study the association of homocysteine, cognition, and cerebrovascular disease in the homebound elderly. Dr. Sarnak is also evaluating the impact of non-traditional risk factors for cardiovascular disease in CKD using databases from the MDRD Study. He is funded by the NIDDK and the National Institutes of Aging to perform these research projects. Dr. Sarnak’s clinical specialties are in cardiovascular disease in patients with kidney disease, management of chronic kidney disease, dialysis, kidney transplantation, and kidney stones.

Carmen Castaneda Sceppa, MD, PhD

Dr. Sceppa’s primary appointment is in the Bouvé College of Health Sciences at Northeastern University and her secondary appointment is in the Friedman School of Nutrition Science and Policy at Tufts University. Her research focuses on the role of protein nutrition (primarily protein) and exercise (primarily resistance training) to counteract the loss of muscle mass and function with age and with chronic diseases like diabetes and CKD in older adults. She studies mechanisms associated with muscle wasting including insulin resistance and inflammation. Dr. Sceppa’s research efforts include reaching out to populations of diverse ethnic backgrounds as well as translating her research findings into clinical care and public health.
Lesley A. Stevens, MD, MS, FRCP (C)  
**Dr. Stevens’s primary research interests** are in kidney function measurement and estimation, as well as 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. Stevens is the recipient of a K23 career development award, the American Society of Nephrology American Specialty Professors (ASN-ASP) Junior Development Grant in Geriatric Nephrology and the DCI-Paul Teschan Research Fund, all of which focus on projects related to kidney function and aging. The later two awards investigate the validity and reliability of novel ways to measure GFR. Dr. Stevens is the principal investigator and director of the Scientific and Data Coordinating Center of a multi-center grant from Gilead Inc to measure kidney function in HIV positive patients. She 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. Stevens is also interested in research and policy related to implementation of CKD Guidelines. She is Program Director, Implementation in the Tufts Center for Kidney Disease Guideline Development and Implementation. She works with NKF leadership and national organizations to implement CKD guidelines, including issues related to GFR estimation and revisions to diagnostic codes for kidney disease. Dr. Stevens’s clinical interests are general nephrology, detection and treatment of CKD, geriatric nephrology, HIV-associated kidney disease, and kidney stones. She is the Director for Quality Improvement for the Division.

Katrin Uhlig, MD, MS  
**Dr. Uhlig** is the Director of Guideline Development at the Tufts Center for Kidney Disease Guideline Development and Implementation. Dr. Uhlig co-directs the evidence review teams for several guideline projects. She has worked on nephrology guidelines since 2001 and in 2003 was a co-founder of the Center. In 2003, she became the Center’s Program Director, Nephrology and in 2008 the Director of Guideline Development. Through participation in several guidelines as Director or Co-Director of the Evidence Review Team (ERT), Dr. Uhlig has acquired unique knowledge as a methods expert in evidence synthesis and critical literature appraisal in the domain of nephrology. Dr. Uhlig provides consultation to the NKF on issues related to process of guideline development and methods of systematic review and critical literature appraisal. She conducts research and lectures on methods of evidence-based clinical practice guideline development and related research topics. She co-teaches an annual course on meta-analysis in the Master of Science Program at the Sackler School of Graduate Biomedical Sciences at Tufts University. Dr. Uhlig’s clinical specialty is in the care of patients with CKD, kidney transplants and kidney stones. In 2010, Dr. Uhlig was promoted to Associate Professor at TUSM.

Ashish Upadhyay, MD  
**Dr. Upadhyay** is the Medical Director of the Division’s Kidney and Blood Pressure Center. His clinical interests are general nephrology, glomerular diseases and kidney transplantation. Dr. Upadhyay’s research interests include clinical practice guideline development, systematic reviews and kidney disease epidemiology. Dr. Upadhyay also currently serves as an Assistant Project Director of the evidence review team for the KDIGO Guideline on Blood Pressure in CKD and the KDIGO Guideline on Anemia Management in CKD. Starting January 2011, Dr. Upadhyay will be leading the evidence review team for the upcoming KDIGO Guideline on Lipid Management in CKD.
Daniel E. Weiner, MD, MS

Dr. Weiner is the recipient of a K23 Career Development Award from the NIDDK to investigate cerebrovascular disease and cognitive impairment in individuals with CKD. His research includes evaluating 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. Additionally, Dr. Weiner received a Carl W. Gottschalk Research Scholar Grant from the American Society of Nephrology to investigate the medical, ecologic and economic impact of dialyzer reprocessing practices. He is leading Tufts’ involvement in the multicenter NIH-funded Systolic Blood Pressure Intervention Trial (SPRINT), which will help elucidate the appropriate blood pressure goal for antihypertensive treatment in non-diabetic adults with cardiovascular risk factors. He is also the recipient of a Paul Teschan Research Fund award to identify novel factors affecting vascular calcification in people with kidney disease, and he is collaborating with public health researchers from Boston University to investigate chronic kidney disease among workers in rural Nicaragua. Dr. Weiner is the Associate Medical Director of DCI Boston. In this role, he is working to enhance care for dialysis patients and dialysis education at Tufts Medical Center. He is also a member of the Dialysis Advisory Group of the American Society of Nephrology. Since October 2006, Dr. Weiner has been the Deputy Editor of the American Journal of Kidney Diseases. In this position, working with a dedicated staff, he is responsible for many of the day-to-day operations of the Journal, and has endeavored to develop new content while maintaining current excellence. Dr. Weiner’s clinical specialties are general nephrology and dialysis, internal medicine, and cardiovascular disease in patients with CKD.

Division Staff

Administration

Members of the support staff sustain the Division’s administrative, clinical, and research operations. Elizabeth J. Fitzgerald, MPA Business Operations Manager III, supervises 37 personnel within the Division (35 onsite and 2 offsite employees). The support personnel are diverse and each staff member brings specialized knowledge and skills to their respective positions. All administrative and clinical staff functions as teams supporting operations and each other. Personnel are cross-trained, enabling each team to support day-to-day operations and the other, when the need arises. The ambulatory support staff also works very closely with our physicians, fellows, staff nurse, physician assistant, and transplant nurse practitioners to provide high-quality care and customer service to our patients. Ms. Fitzgerald also oversees the Division’s Fellowship program, currently staffed as 13 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>Lorna Davies</td>
<td>Administrative Assistant III</td>
</tr>
<tr>
<td>Hasnaa Moussaif</td>
<td>Administrative Assistant II</td>
</tr>
<tr>
<td>Neva Parsons</td>
<td>Administrative Assistant III</td>
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</tbody>
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## Kidney and Blood Pressure Center Staff

<table>
<thead>
<tr>
<th>Staff Member</th>
<th>Position</th>
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<tbody>
<tr>
<td>Helen Freedman</td>
<td>Patient Service Coordinator III</td>
</tr>
<tr>
<td>Ashley Lacatte</td>
<td>Phlebotomist / Medical Assistant</td>
</tr>
<tr>
<td>Debbie Mitchell-Dozier, RN</td>
<td>Staff Nurse</td>
</tr>
<tr>
<td>Finna Tam</td>
<td>Patient Service Coordinator III</td>
</tr>
<tr>
<td>Jennifer Trignano, PA-C</td>
<td>Physician Assistant</td>
</tr>
<tr>
<td>Elizabeth Wenger, MA</td>
<td>Clinic Supervisor</td>
</tr>
<tr>
<td>Bary (Ho Ching) Yuen</td>
<td>Patient Service Coordinator II</td>
</tr>
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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>Julie Bryant</td>
<td>Patient Service Coordinator II</td>
</tr>
<tr>
<td>Julie Flynn</td>
<td>Patient Service Coordinator II</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>Juliana Castedo</td>
<td>Research Assistant I</td>
</tr>
<tr>
<td>Julie Driggs, RN (per diem)</td>
<td>Clinical Research Associate IIA</td>
</tr>
<tr>
<td>Amy Earley</td>
<td>Project Coordinator</td>
</tr>
<tr>
<td>Lena Giang</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Shana Haynes</td>
<td>Research Associate I</td>
</tr>
<tr>
<td>Priyanka Jain</td>
<td>Research Assistant I</td>
</tr>
<tr>
<td>Bethany Kirkpatrick</td>
<td>Research Assistant I</td>
</tr>
<tr>
<td>Peter Laucks</td>
<td>Clinical Research Coordinator II</td>
</tr>
<tr>
<td>Jenny Lamont</td>
<td>Project Manager/Medical Writer</td>
</tr>
<tr>
<td>Alice Martin, RN</td>
<td>Research Nurse</td>
</tr>
<tr>
<td>Temitope Oio</td>
<td>Research Assistant</td>
</tr>
<tr>
<td>Aghogho Okparavero</td>
<td>Clinical Research Associate II</td>
</tr>
<tr>
<td>Eric Sorensen</td>
<td>Research Assistant I</td>
</tr>
<tr>
<td>Gertrude (Peachy) Simon, RN</td>
<td>Clinical Research Associate IIA</td>
</tr>
<tr>
<td>Veronika Testa, RN, CCRC</td>
<td>Clinical Research Associate IIA</td>
</tr>
<tr>
<td>Open Positions</td>
<td>Research Assistant II</td>
</tr>
<tr>
<td></td>
<td>Statistician/Research Associate II</td>
</tr>
</tbody>
</table>
Research Administration

Krista Boisclair, MS and Teresa Hamelin, both Research Administrators II, under the supervision of Director of Research Administration for the Department of Medicine, are responsible for assisting investigators and research staff in all aspects of grants management and coordination with research activities of the Division. Research activities of the Division are discussed in more detail starting on page 44.

American Journal of Kidney Diseases

Nijsje Dorman, PhD, is Managing Editor for the *American Journal Kidney Diseases*. Dr. Dorman is responsible for all aspects of editorial operations of the journal. More information about AJKD is on pages 70-71.

*American Journal of Kidney Diseases Editorial Office Staff*

<table>
<thead>
<tr>
<th>Staff Member</th>
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<tbody>
<tr>
<td>Elizabeth Bury, MFA</td>
<td>Features Manager/Editorial Assistant II</td>
</tr>
<tr>
<td>Barbara Saper</td>
<td>Editorial Office Assistant</td>
</tr>
<tr>
<td>Amy Sibley</td>
<td>Associate Managing Editor</td>
</tr>
</tbody>
</table>

Faculty and Staff Changes in 2010

Faculty Changes

- In 2010, Dr. Menon accepted a position as Director of Clinical Epidemiology at Outcome Sciences in Cambridge MA. Founded in 1998, Outcome focuses on outcomes studies and has dedicated itself to leading the way in registries, post-approval research, and quality improvement initiatives.

- Dr. Rao successfully defended her dissertation titled, TGF-b1 Gene Variants in Chronic Kidney Disease - A Candidate Gene Study. She was a PhD candidate in the Sackler Clinical and Translational Science Graduate Program, which is part of the Tufts CTSI Education Component. Her dissertation was approved unanimously.

- In early 2010, Dr. Sarnak was promoted to Professor of Medicine at TUSM. This promotion is in recognition of Dr. Sarnak’s outstanding achievements in research, teaching, and patient care, and his tremendous contributions to the division, department, hospital and university. He has reached this milestone at an early stage in his career -- a testament to his many capabilities, hard work, and tireless devotion to his principles.
• Also in 2010, Dr. Uhlig was promoted to Associate Professor of Medicine at TUSM.

Staff Changes

Clinical

• Robyn Bluestein, MPH resigned her position as the Ambulatory Supervisor in the Kidney and Blood Pressure Center. She accepted a position at Boston Medical Center as an Operations Manager.

• Elizabeth Wenger, MA assumed the role of Clinic supervisor to replace Robyn Bluestein. She previously worked as Massachusetts General Hospital as a Development Coordinator and also currently volunteers as a Surgical Liaison. She is currently enrolled in the Master of Health Administration program at Suffolk University and earned a Bachelor of Arts degree from Fairfield University, as well as a Master of Arts degree from Boston College. The clinic supervisor is responsible for supervising the daily activities of clinic to ensure efficient ambulatory operations.

Research

• Several research assistants resigned from their positions this past year. Brian Agganis and Danielle Nicolazzo left to attend medical school. Kruti Pandya moved to Seattle WA and Vidya Rajagopal moved back to India. Others who resigned include Maia Leppo who worked with Lesley Stevens, Srila Gopal, and Lijun Li.

• Bethany Kirkpatrick was hired as a Research Associate who is working with Drs. Sarnak and Weiner to help recruit and follow patients enrolling in 3 different protocols (1. Observational Study of Cognitive Function in Dialysis Patients; 2. Randomized Controlled Trial of Niaspan vs Placebo in CKD; 3. SPRINT Trial) Veronika Testa, RN CCRC was also hired to be a part-time study coordinator for the HALT-PKD study. Veronika comes with extensive experience in clinical research, having served most recently as the Research Subject Advocate for the CTRC at Tufts Medical Center. Eric Sorensen was hired as a study coordinator working with Dr. Sarnak.

American Journal of Kidney Diseases

• Amy Sibley was hired as an Associate Managing Editor after Elizabeth Frank resigned.
2010 Administrative Accomplishments

- The role of Medical Director for the Kidney and Blood Pressure Center has completely transitioned from Dr. Gilbert to Dr. Upadhyay.

Service

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

Service to Tufts Medical Center

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

- Dr. Jaber is a scientific reviewer for the Tufts Clinical and Translational Science Institute (CTSI) Pilot Studies Program.

- Drs. Levey and Sarnak are members of the Clinical Research Program Advisory Committee for the Fellowship Program in the Institute for Clinical Research and Health Policies in the Division of Clinical Care Research.

- Dr. Meyer is the medical staff sponsor for the Schwartz Center Rounds.

- Dr. Meyer is a member of the Information Systems Advisory Committee.

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

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

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

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

Service to TUSM/Sackler School of Graduate Biomedical Sciences

- Dr. Gilbert is an Ex Officio member of the TUSM Curriculum Committee.
• Since 2007, Dr. Gilbert has served as the Chair of the From Health to Disease: Cardiac/Pulmonary/Renal Course Development Committee.

• In 2010, Dr. Gilbert became a member of both the Learning Community Steering Committee and the Community Service Learning Effort Steering Committee.

• Dr. Jaber serves on the Clinical Faculty Appointment and Promotion Committee of TUSM.

• Dr. Meyer serves as a member of the TUSM Compassionate Care Faculty Advisory Group.

• Dr. Meyer is a member of the Kenneth B. Schwartz Center Compassionate Care Faculty Development program. Already a master at compassionate patient care, Dr. Meyer is one of a core group of physicians who is training to be a ‘master teacher’ of compassionate patient care. This purposes of this program, through the generous support of the Kenneth B. Schwartz Center, are to 1) train a core group of health care educators from the hospital affiliates of TUSM to be ‘master teachers’ of compassionate patient care; 2) have participants join a site-based team to develop, implement, and assess an educational compassionate care project at their clinical site and receive feedback throughout the process; 3) develop a TUSK website that will serve as a repository for compassionate care resources as well as teaching, learning, and assessment strategies; 4) assess the impact of the program on (a) the professional development of participating educators and (b) the educational experience of the site-based project’s participants. The Compassionate Care Faculty Development Program builds upon the work of the Compassionate Care Faculty Advisory Group which developed a curricular template to teach compassionate care throughout the TUSM 4-year medical school curriculum.

• Dr. Rao was elected to the TUSM Scientific Affairs Committee.

• Dr. Uhlig is a member of the Admissions Committee for the Graduate Program in Clinical and Translational Science at the Sackler School of Graduate Biomedical Sciences

• Dr. Weiner is a member of the Curriculum Committee at TUSM.

**Service to Professional Organizations**

In addition to providing service on a local level, Division members are actively involved in providing service to our professional organizations on the local, national, and international levels.
• Dr. Gilbert is a member of the Panel for Accreditation Appeals in Nephrology Accreditation Council for Graduate Medical Education.

• Dr. Gilbert was a member of the NKF's 60th Anniversary Gala in honor of Theodore Steinman, MD. Several Division members and their guests attended the event.

• Drs. Gilbert and Perrone serve as members of the Medical Advisory Board of the NKF Serving New England.

• In 2010, Dr. Jaber completed his service as a member of the Kidney Disease Outcomes Quality Initiative (KDOQI) Advisory Board of the NKF. He had held that position since 2004.

• In 2010, Dr. Jaber completed his service as a member of the Renal Disease & Detoxification Committee of the Association for Advancement of Medical Instrumentation (AAMI).

• Dr. Jaber contributed to the ASN In-training Examination as an item-writer for the AKI/ICU nephrology content in conjunction with the National Board of Medical Examiners.

• Dr. Jaber was elected to Chair the Acute Kidney Injury Advisory Group of the American Society of Nephrology. He has been a member of the group since 2007.

• Dr. Jaber was an abstract reviewer for Acute Kidney Injury submissions to the World Congress of Nephrology being held in 2011.

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

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

• Dr. Madias is a member of the Advisory Board for the Hellenic Bioscientific Association in the USA.
• Dr. Madias is a member of the Education Committee for the American Society of Nephrology.

• Dr. Meyer is a member of the Board of Directors of the End-Stage Renal Disease Network of New England.

• Since 2006, Dr. Meyer has been a member of the Board of Directors of the Forum of End-Stage Renal Disease Networks. He also represents the Forum Board on the United States Renal Data System External Advisory Committee and also the Fistula First Breakthrough Initiative. The Forum is a not-for-profit organization that comprises the 18 regional End-Stage Renal Disease Networks that are responsible for coordinating care for patients with kidney failure throughout the United States. The Forum’s mission is to provide support to the ESRD Networks in promoting and improving the quality of care of ESRD patients. Their mission is achieved through education and the collection, analysis, and dissemination of data and information.

• Dr. Meyer is the President-Elect of the National Forum of ESRD Networks. His term began in July 2009 and will end in June 2011.

• Dr. Meyer has many roles at Dialysis Clinic, Inc. He is the Medical Director for both the Information Systems and the Outcomes Monitoring Program. He is also a member of the Medical Information System Steering Committee.

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

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

• Dr. Pereira is a member of the Board of Trustees, Kidney Disease Improving Global Outcomes (KDIGO) Holdings.

• Dr. Perrone is a member of the Scientific Advisory Committee of the Polycystic Kidney Disease Foundation and its former Chair.

• In 2010, Dr. Perrone was elected as the Chair of the UNOS Region 1 Renal Transplant Oversight Committee. This is the United Network of Organ Sharing (UNOS) group that oversees kidney transplantation in New England. The RTOC oversees kidney transplantation policy in Region 1 of UNOS which covers most of New England. The RTOC makes important decisions regarding kidney
transplant policy. As chair, Dr. Perrone will impact changes that can improve kidney transplant processes for patients across New England. He will hold this position for 2 years.

- Dr. Perrone is the Region 1 Representative on the OPTN/UNOS Living Donor Committee. His term on the committee began in 2009 and ends June 2011. As the Region 1 Representative his role includes attending committee meetings; representing the Region 1 membership during committee deliberations; providing an update on committee activities during the face to face Regional Meetings held in the Spring/Fall; presenting the committee proposals during all face-to-face and Internet-based Regional Meetings and providing feedback to the committee as to the regional sentiment on proposals.

- Since 2006, Dr. Sarnak has been the co-chair of the Cardiovascular Health Study (CHS) Renal Work Group. He joined the Work Group in 2003.

- In 2010, Dr. Sarnak was the chair of the CKD: Epidemiology, Outcomes Abstract Committee for the American Society of Nephrology meeting and also a member of the American Society of Nephrology Committee for Nephrology Board Questions.

- Dr. Sarnak is on the writing committee of the cardiovascular subcommittee of the Hemodialysis (HEMO) Study.

- Since 2004, Dr. Sceppa has been a grant reviewer for the European Society for Parenteral and Enteral Nutrition.

- In 2010, Dr. Sceppa became the Chair of the Intervention Working Group at the Centers for Population Health and Health Disparities of the National Heart Lung and Blood Institute and the National Cancer Institute. She is also a member of the Planning Committee for the Network of Minority Research Investigators at the National Institute of Diabetes and Digestive and Kidney Diseases.

- Dr. Sceppa is a member of the American Diabetes Association Council on Exercise.

- Dr. Stevens is a member of the NKF’s Kidney Disease Early Evaluation Program (KEEP) Steering Committee and also is the chair of the Clinical Oversight Committee of KEEP.

- Dr. Stevens worked with the American Board of Internal Medicine to develop the CKD Practice Improvement Module.

- Dr. Weiner began a 3-year term as a member of the American Society of
Nephrology’s Dialysis Advisory Group in October. The Dialysis Advisory Group is responsible for representing its constituents in all ASN activities including identifying, developing and communicating policy issues; meeting the needs of the constituent group in all forms of ASN education; promoting collaborations for its constituent group (including research); assisting the ASN in generating external support for its activities; and interacting with other organizations that relate directly to the Advisory Group and its members.

**Administrative Honors and Awards**

Hasnaa Moussaif was invited by Tufts Medical Center President and CEO, Ellen Zane, to be one of two speakers at the annual YMCA Training Inc., fundraising breakfast in May, 2010 held at the Ritz-Carlton. The YMCA Training Inc. program offers quality job training that results in work-ready employees who meet the needs of community businesses. Their curriculum offers the combination of technical training, soft skills development, and ongoing community support needed for trainees to find and retain good jobs. As a proud partner of YMCA Training Inc., Tufts Medical Center employs a number of program graduates.

As a graduate of this program, Hasnaa’s speech focused on the need and value of this program, which not only enabled her to gain employment with Tufts Medical Center, but also prepared her to successfully execute the responsibilities of her position as Administrative Assistant II within the Division. In addition to the technical skills and training Hasnaa learned through the program, Elizabeth Fitzgerald had the opportunity at the banquet to recognize Hasnaa for all of the skills and talents she brings to the position. Hasnaa has the organizational skills necessary for her to process a steady flow of prescriptions in a timely and efficient manner, a strong commitment to her position, and is always willing to pitch in and help out whenever the Division is short-staffed. The Division of Nephrology is very happy that Hasnaa chose to share her talents and newly developed skills with us!

**Patient Care**

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

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

For 2 of the last 3 years, the Division of Nephrology has been ranked in the "Best Hospitals" edition of US News and World Report.

2010 Patient Care Initiatives

Outpatient

- After a 1-year transition period, Dr. Upadhyay is now the Medical Director for the Kidney and Blood Pressure Center. The previous director was Dr. Gilbert who served in that capacity for several years.

- Dr. Perrone was featured in a Tufts Medical Center video about PKD.

- This year, infusion of intravenous iron for KBPC patients was transitioned from the KBPC to the Tufts Medical Center's Infusion Center.

Outpatient and Inpatient

- In March, the Tufts Medical Center laboratory began reporting the CKD-EPI equation to estimate GFR instead of the MDRD Study equation. Dr. Stevens led the effort to make this change. The CKD-EPI equation is more accurate than the MDRD Study equation, particularly for levels of estimated GFR (eGFR) greater than 60 mL/min/1.73 m². Using the CKD-EPI equation, values can be reported throughout the range of GFR. The CKD-EPI equation will generally result in higher values for eGFR compared to the MDRD Study equation, with greatest differences for people with higher levels of GFR (i.e., younger, whites, and women).
Continuing Outpatient Patient Care Initiatives

Outpatient Program Descriptions

Kidney and Blood Pressure Center

Outpatient clinical activities take place primarily in the KBPC, directed by Dr. Upadhyay. There are currently nine half-day-a-week clinics staffed by Drs. Balakrishnan, Gilbert, Kausz, Kuhlik, Levey, Meyer, Miskulin, Perrone, Sarnak, Stevens, Uhlig, and Upadhyay.

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. Recently, a multidisciplinary Kidney Stone Clinic began coordinating nephrology, surgery, radiology, and nutrition expertise.

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, and genetic predisposition to progression.

In collaboration with Jane Maxim (DCI) Home Dialysis Nurse Manger, Debbie Mitchell-Dozier holds patient education sessions. The Renal Replacement Options Meetings are facilitated discussions held every quarter for Stage IV and Stage V CKD patients who would benefit from open discussion of hemodialysis (center based vs. home based), peritoneal dialysis, and renal transplantation. The meeting is open to both patients and family members. Starting in 2011, the CKD patient education program will be expanded to include sessions on complications and other quality of life issues relating to CKD.

Home Dialysis

The Division of Nephrology has an active home dialysis program at DCI’s Ball Square facility in Somerville, comprising both peritoneal dialysis and home hemodialysis. Drs. Meyer, Weiner, Balakrishnan, Dash and Cohen hold monthly home dialysis clinics at DCI Ball Square.
Center for Polycystic Kidney Disease

In 2006, Dr. Perrone opened The Center for Polycystic Kidney Disease at Tufts Medical Center. This multidisciplinary clinic offers comprehensive, coordinated care for patients with polycystic kidney disease. The Center’s physicians are internationally recognized experts in treating and managing the complications of PKD. In addition to Drs. Perrone and Miskulin of the Division of Nephrology, physicians from transplant surgery, cardiothoracic surgery, urology, neurosurgery, and clinical genetics participate in the Center. Areas of expertise include providing coordinated care for chronic kidney disease including dialysis and transplantation, treatment of hypertension, and evaluation and management of the complications of liver and kidney cysts including chronic pain, kidney stones, and cardiovascular issues including intracranial aneurysms. Multidisciplinary consultations are provided in collaboration with Gennaro Carpinito, MD, Urologist-in-Chief and Chairman, Department of Urology; Adel Malek, MD, Neurosurgeon; Richard Rohrer, MD, Chief, Transplant Surgery; Michael Tarnoff, MD, Associate Director, Minimally Invasive Surgery Center; Laurence H. Brinckerhoff, M.D., Division of Thoracic Surgery; Diana Bianchi, MD, Vice Chair for Research, Floating Hospital; and Laurie Demmer, MD, Chief, Genetics.

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

Kidney Transplantation Program

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

In 2006, the Kidney Stone Clinic was initiated as a new clinical service within the KBPC. Drs. Miskulin, Stevens, and Uhlig in collaboration with Dr. Dierks, Division of Urology, and Jessica Lane, Francis Stern Center for Nutrition, offer comprehensive and coordinated care for patients with kidney stones. Outpatients are seen in the kidney stone clinics on Monday and Tuesday afternoons.

In-Center Hemodialysis

At Tufts Medical Center, Drs. Meyer and Weiner are the Director of Dialysis Services and Associate Director of Dialysis Services, respectively. Since 1986, the dialysis program has been operated by Dialysis Clinic, Inc. (DCI), a national not-for-profit dialysis organization which sets the national benchmark for quality of care.

The DCI Boston in-center hemodialysis facility treats approximately 100 patients. The unit operates 5 shifts, including one of the few evening shifts in Greater Boston. Debbie Van Allen, RN, MS, who joined the dialysis program in 1976, manages the in-center dialysis program. The hemodialysis nursing staff have a median of 25 years of dialysis experience and the patient care technicians have a median 10 years’ dialysis experience. The Division’s research and administrative offices are adjacent to DCI Boston. Physical proximity makes frequent patient contact practical and physicians round on each patient shift twice a week. Table 3 lists the dialysis programs affiliated with the Division of Nephrology.

In 2010, the program was recognized by the End-Stage Renal Disease Network of New England as one of only seven dialysis facilities in New England, and the only facility in Boston, to use arteriovenous (AV) fistulas to perform dialysis on more than 70% of its hemodialysis patients. The AV fistula, constructed from the patient’s own artery and vein, is the best form of access to the circulation for hemodialysis, resulting in better health outcomes and lower health care costs. The Centers for Medicare and Medicaid Services established a national goal that AV fistulas should be used for 66 percent of dialysis patients by 2009. As of August 2010, the national rate of fistula use was only 56 percent, while at the DCI Boston clinic, 75.5 percent of patients receive dialysis through fistulas. This is the third year the dialysis unit has been recognized for its performance in the Fistula First National Vascular Access Improvement Initiative.
Table 3: Outpatient Hemodialysis Units Affiliated with Tufts Medical Center

<table>
<thead>
<tr>
<th>Location</th>
<th>Dialysis Unit</th>
<th>Medical Directors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tufts Medical Center</td>
<td>DCI Boston</td>
<td>Klemens B. Meyer MD, Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Daniel E. Weiner MD, Associate Medical Director</td>
</tr>
<tr>
<td>Somerville</td>
<td>DCI Ball Square</td>
<td>Anthony Z. Dash MD, Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Michael B. Cohen MD, Co-Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Klemens B. Meyer MD, Medical Director for Home Dialysis</td>
</tr>
<tr>
<td>Concord</td>
<td>DCI Walden Pond</td>
<td>Klemens B. Meyer MD, Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Andrei Kouznetsov MD, Associate Medical Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Valerie R. Price MD, Associate Medical Director</td>
</tr>
</tbody>
</table>

Outpatient Volume

Table 4 demonstrates outpatient volume at Tufts Medical Center and the Pratt Medical Group Nephrology and Hypertension in Concord. Table 5 shows the number of outpatient dialysis visits by Division-affiliated physicians. All volume numbers are for the Tufts Medical Center and DCI fiscal year 2010, which ran from October 2009 to September 2010, unless otherwise stated.

Table 4: Comparison of Outpatient Activity: Fiscal Year 2009 vs. 2010

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tufts Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kidney Blood Pressure Center</td>
<td>6,244</td>
<td>-14%</td>
</tr>
<tr>
<td>Pratt Medical Group Nephrology and Hypertension, Concord</td>
<td>1,814</td>
<td>-12%</td>
</tr>
<tr>
<td>Dialysis Clinic, Incorporated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boston (Tufts Medical Center) hemodialysis treatments</td>
<td>14,564</td>
<td>+2%</td>
</tr>
<tr>
<td>Ball Square hemodialysis treatments</td>
<td>12,163</td>
<td>+4%</td>
</tr>
<tr>
<td>Ball Square home-dialysis patients*</td>
<td>33</td>
<td>0%</td>
</tr>
<tr>
<td>Walden Pond hemodialysis treatments</td>
<td>7,704</td>
<td>0%</td>
</tr>
</tbody>
</table>

*Total number of PD and home HD patients for calendar year 2010
Table 5: Comparison of Outpatient Dialysis Visits by Division Physicians at Affiliated Units: Fiscal Year 2009 vs. 2010

<table>
<thead>
<tr>
<th>Dialysis Unit</th>
<th>Number of Visits Fiscal Year 2009</th>
<th>Number of Visits Fiscal Year 2010</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Elizabeth’s Medical Center</td>
<td>206</td>
<td>232</td>
<td>+13%</td>
</tr>
<tr>
<td>Lawrence Memorial</td>
<td>66</td>
<td>65</td>
<td>0%</td>
</tr>
<tr>
<td>Saugus</td>
<td>205</td>
<td>213</td>
<td>0%</td>
</tr>
<tr>
<td>Stoneham</td>
<td>421</td>
<td>364</td>
<td>-14%</td>
</tr>
</tbody>
</table>

Table 6: Comparison of Outpatient Ambulatory Visits by Division Physicians at Affiliated Units: Fiscal Year 2009 vs. 2010

<table>
<thead>
<tr>
<th>Hospital-based Ambulatory Clinic</th>
<th>Number of Visits Fiscal Year 2009</th>
<th>Number of Visits Fiscal Year 2010</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lawrence Memorial</td>
<td>1,040</td>
<td>645</td>
<td>-38%</td>
</tr>
<tr>
<td>Melrose Wakefield</td>
<td>1,319</td>
<td>679</td>
<td>-49%</td>
</tr>
<tr>
<td>St. Elizabeth’s Medical Center</td>
<td>211</td>
<td>153</td>
<td>-27%</td>
</tr>
</tbody>
</table>

**Inpatient Program Descriptions**

**Nephrology Inpatient Services**

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

Dr. Perrone is the Medical Director and all Division attending physicians also participate in the Tufts Medical Center Kidney Transplant Program. A relatively high proportion of kidney transplants derive from related or unrelated living donors. Tufts Medical Center is also an active participant in the New England Program for Kidney Exchange that has centralized the coordination of sharing by mismatched donor-recipient pairs so as to allow regional paired-donor exchanges. Patients who have received transplants are seen weekly in the KBPC in the initial months following the transplant, thereafter at increasing intervals. The transplant team at Tufts Medical Center has conducted more than 1000 kidney transplants. In 2010, the kidney transplant program will celebrate its 40th anniversary!

Inpatient Dialysis

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

DCI, the hospital's dialysis provider, assigns 3 nurses to both perform inpatient hemodialysis treatments and facilitate continuous hemofiltration therapies performed in the intensive care units, with additional staff as needed. Linda Courtemanche, RN manages the inpatient dialysis program, which she joined in 1986. The staff performs pediatric and adult hemodialysis. The program is organized with particular attention to patient flow; most of the patients receiving hemodialysis treatment are also undergoing many other tightly scheduled tests and procedures. Response time for emergency hemodialysis after hours is 45 minutes; during the day, treatments can be initiated even more quickly.

Continuous Renal Replacement Therapy

Dr. Perrone is the Director of this program that provides continuous renal replacement therapies such as continuous venovenous hemofiltration (CVVH) and slow continuous ultra filtration (SCUF) in all intensive care units. These therapies are utilized with increasing success to support critically ill patients from other services who have developed acute kidney injury as a complication of their underlying illnesses, other treatments, or surgery. Introduction of citrate regional anticoagulation has markedly
improved the efficiency and efficacy of CVVH, thereby allowing its use in all intensive care units at Tufts Medical Center. With the growth of solid organ and bone marrow transplantation, cardiac surgery, and oncology programs, increased utilization of continuous renal replacement therapies will be required.

Inpatient Volume

All volume numbers in Tables 7 and 8 are from the fiscal year, October 2009 to September 2010, unless otherwise indicated. Inpatient activity at Tufts Medical Center and affiliated hospitals by Tufts Medical Center physicians are listed in Table 7. Inpatient treatments by DCI at Tufts Medical Center and Emerson Hospital are listed in Table 8.

Table 7: Comparison of Inpatient Activity: Fiscal Year 2009 vs. 2010

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tufts Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient-days of service: Nephrology Consult &amp; Ward Services</td>
<td>9,747</td>
<td>9,998</td>
</tr>
<tr>
<td>Kidney transplants*</td>
<td>38</td>
<td>36</td>
</tr>
<tr>
<td>Bone biopsy day surgery procedures</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Days of CVVH and peritoneal dialysis treatments</td>
<td>555</td>
<td>765</td>
</tr>
<tr>
<td>St. Elizabeth’s Medical Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>180</td>
<td>656</td>
</tr>
<tr>
<td>Emerson Hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>1,055</td>
<td>1,420</td>
</tr>
<tr>
<td>Kindred Hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>500</td>
<td>344</td>
</tr>
<tr>
<td>Lawrence Memorial Hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>469</td>
<td>943</td>
</tr>
<tr>
<td>Melrose Wakefield Hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>1,425</td>
<td>1,851</td>
</tr>
<tr>
<td>Whidden Hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient days of service</td>
<td>138</td>
<td>144</td>
</tr>
</tbody>
</table>

*Calendar year 2010
Division Quality Improvement

The division remains committed to improving the quality of care both for our patients and patients throughout the institution. Dr. Stevens 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.

Survey Assessing Physician Performance

Under the direction of Dr. Richardson, the Division surveys the non-physician staff and the nephrology fellows biannually for their assessment of attending physician performance. Non-physician staff members and health care professionals in the outpatient and inpatient dialysis units, North 7, and the KBPC anonymously evaluate each Division physician. The 2010 assessment was the 5th time the survey was administered. Table 9 lists the questions and the sum of the positive responses. Our faculty performed very well; all questions received greater than 90% positive responses and for 8 of 11 questions, 95% positive responses were received.

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Table 8: Comparison of DCI Inpatient Hemodialysis Treatments: Fiscal Year 2009 vs. 2010

<table>
<thead>
<tr>
<th>Institution and Location</th>
<th>Fiscal Year</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2009</td>
<td>2010</td>
</tr>
<tr>
<td><strong>Tufts Medical Center</strong>: Inpatient hemodialysis treatments</td>
<td>1,845</td>
<td>2,578</td>
</tr>
<tr>
<td><strong>Emerson Hospital</strong>: Inpatient hemodialysis treatments</td>
<td>265</td>
<td>231</td>
</tr>
</tbody>
</table>

In 2010, inpatient clinical activities performed by Division nephrologists at 3 affiliated hospitals in the Greater Boston area increased 30%-101%.
The Division is committed to providing quality patients care and a supportive learning environments. These data show that we are meeting that commitment. The Division uses this tool during faculty review and planning meetings and as a component of credentialing to continuously improve the care and learning environment we provide. We are fortunate to have resources within our Division that allow us to successfully undertake this initiative.

Table 9: 2010 Physician Staff Assessment Survey Results

<table>
<thead>
<tr>
<th>Questions</th>
<th>% Positive Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>• This physician routinely exhibits caring and respectful behavior to patients and their families.</td>
<td>98.8</td>
</tr>
<tr>
<td>• This physician adequately and appropriately provides explanations to patients and their families.</td>
<td>98.5</td>
</tr>
<tr>
<td>• This physician is sensitive to patients’ culture, age, gender, and disabilities.</td>
<td>97.1</td>
</tr>
<tr>
<td>• This physician strongly advocates for patients within the health system.</td>
<td>96.7</td>
</tr>
<tr>
<td>• This physician is attentive to the details of patient care.</td>
<td>96.8</td>
</tr>
<tr>
<td>• This physician routinely exhibits caring and respectful behavior to staff.</td>
<td>97.3</td>
</tr>
<tr>
<td>• This physician respects multidisciplinary input and integrates it into patient care.</td>
<td>96.8</td>
</tr>
<tr>
<td>• This physician responds in a timely manner when paged or called.</td>
<td>93.1</td>
</tr>
<tr>
<td>• This physician is responsive to the administrative needs of the dialysis unit, clinic or nursing unit (includes scheduling, adherence to regulations, discharge planning, instructions to house staff, etc.).</td>
<td>91.7</td>
</tr>
<tr>
<td>• I would trust this physician to take care of members of my family.</td>
<td>95.5</td>
</tr>
<tr>
<td>• Overall rating of this physician. (Note: A positive result for this item is the sum of percent excellent and percent very good ratings.)</td>
<td>91.3</td>
</tr>
</tbody>
</table>

Community Service/Patient Education

Division staff members actively participate in community projects, particularly in neighboring Chinatown. In addition to health screenings, the Division has focused on education for health care providers, patients, and the general community. Please refer to Table 10 for a detailed listing of events.

In addition to specific events, members of the Division participate in community service organizations.

• Dr. Perrone serves on the Physician’s Advisory Board of the Asian-American
Civic Association in Boston.

- **Dr. Sceppa** is a member of the Advisory Committee of the Community Health Education and Literacy Program of the Center for Community Health Education Research and Service.

- **Dr. Sceppa** is also a member of the ABCD Head Start Citywide Health Services Advisory Committee for the city of Boston and the Multicultural Coalition on Aging, Boston, MA

### Table 10: 2010 Community Service Events

<table>
<thead>
<tr>
<th>Type</th>
<th>Community</th>
<th>Location</th>
<th>Partner(s)</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>World Kidney Day KEEP Screening</td>
<td>Patients at risk for CKD</td>
<td>Boston MA</td>
<td>NKF Serving New England</td>
<td>75</td>
</tr>
<tr>
<td>PKD Through the Stages: A Conversation with Dr. Ronald Perrone</td>
<td>Patients and families with PKD</td>
<td>Newton MA</td>
<td>New England Chapter of the PKD Foundation</td>
<td>100</td>
</tr>
<tr>
<td>National Night Out</td>
<td>Screening for CKD and hypertension</td>
<td>Chinatown—Boston MA</td>
<td>Tufts Medical Center</td>
<td>100</td>
</tr>
<tr>
<td>Up Close and Personal with the New England Program for Kidney Exchange (NEPKE)</td>
<td>Patients and families with PKD</td>
<td>Waltham MA</td>
<td>New England Organ Bank</td>
<td>30</td>
</tr>
</tbody>
</table>

- Division members participated in 1 NKF-sponsored Kidney Early Evaluation Program (KEEP) screening in 2010. KEEP is a comprehensive screening program that includes a health risk questionnaire, blood pressure measurement, blood and urine tests, and individual consultation with a physician to discuss the patient’s risks for diabetes, hypertension, and CKD.

- Division members, families and their friends participated in the NKF Boston Kidney Walk held at the Franklin Zoo on May 16th. The “Tufts Kidney Care” team had a fun time at the Zoo and thanks to an extremely generous gift given from a friend of Dr. Perrone’s, who donated to the NKF in memory of his father, the Tufts team ranked 1st having raised $13,000!
The NKF honored team Tufts Kidney Care at a special event at Gillette Stadium. The team was recognized as a Walk All Star at the 2010 Boston Kidney Walk for excellence in fund-raising and received a certificate of appreciation.

- The Tufts Kidney Care Team, consisting of Division members and their families, participated in the 10th Walk for PKD in Boston. Unlike last year’s torrential rains, this year the weather was picture perfect. Tufts Kidney Care Team raised more than $4800 to support PKD research and education. Drs. Levey, Perrone, and Falke (Andy’s wife Roberta) appeared on WBZ news to publicize PKD and the walk.

Tufts Kidney Care Team at the PKD Walk

**Patient Care Awards and Honors**

- In 2010, Dr. Levey was notified that he will be honored at the 2011 National Kidney Foundation’s Spring at the Park Gala. The event is being held on Friday, April 1st at the Four Seasons Hotel in Boston.
• In 2010, the William B. Schwartz Division of Nephrology was honored for the 2nd time in the last 3 years in the "Best Hospitals 2010-2011" edition of US News and World Report.

• DCI Boston was recognized by the End-Stage Renal Disease Network of New England as one of only seven dialysis facilities in New England, and the only facility in Boston, to use arteriovenous (AV) fistulas to perform dialysis on more than 70% of its hemodialysis patients. The Centers for Medicare and Medicaid Services established a national goal that AV fistulas should be used for 66% of dialysis patients by 2009. As of August 2010, the national rate of fistula use was only 56%, while at the DCI Boston clinic, 75.5% of patients receive dialysis through fistulas.

• In the December 2010 issue of Boston Magazine, Drs. Levey, Perrone, and Sarnak were recognized as Boston’s best nephrologists. Dr. Perrone has received this honor 2 years in a row!

Research

Research conducted in the Division is focused on solving clinical problems. Each research project has a domain expert, in most cases a nephrologist, a methods expert, and collaborators from other disciplines. The location of the Division offices, the KBPC, and the DCI Boston dialysis unit on 3 adjacent floors in the same building has been a major reason for the Division’s success in performing clinical research. The Division’s primary focus is on clinical research in CKD. However, there are a growing number of projects in acute kidney injury. Areas of emphasis are listed in Table 11.
Table 11: Areas of Research Emphasis in the Division

<table>
<thead>
<tr>
<th>Area of Emphasis</th>
<th>Research Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epidemiology of CKD</td>
<td>• Definition and staging of CKD&lt;br&gt;• Prevalence in US population and subgroups defined by demographic and clinical characteristics</td>
</tr>
<tr>
<td>Assessment of kidney function</td>
<td>• Development and validation of GFR prediction equations&lt;br&gt;• Development of a national program for standardization of serum creatinine assay</td>
</tr>
<tr>
<td>Interventions to slow progression of kidney disease</td>
<td>• Secondary analysis of studies of dietary modification&lt;br&gt;• Antihypertensive agents and blood pressure goals&lt;br&gt;• Halt-PKD clinical trial (Polycystic kidney disease)&lt;br&gt;• TEMPO 3/4 (Tolvaptan) clinical trial (Polycystic kidney disease)</td>
</tr>
<tr>
<td>Clinical and epidemiological studies of nutrition in CKD</td>
<td>• Secondary analysis of studies of dietary modification in CKD&lt;br&gt;• Clinical trials of strength training in CKD&lt;br&gt;• Secondary analysis of obesity in CKD</td>
</tr>
<tr>
<td>Bone disease in CKD</td>
<td>• Prevalence of adynamic bone disease in bone biopsies from dialysis patients</td>
</tr>
<tr>
<td>Implementation of clinical practice guidelines in CKD</td>
<td>• Demonstration projects in managed care organizations&lt;br&gt;• Clinical trials in CKD populations</td>
</tr>
<tr>
<td>Epidemiology of CVD in CKD</td>
<td>• Studies of the burden of CVD and CVD risk factors in CKD&lt;br&gt;• CKD as a risk factor for CVD</td>
</tr>
<tr>
<td>Clinical and epidemiological studies on cerebrovascular disease in CKD</td>
<td>• Antihypertensive therapy to prevent stroke recurrence</td>
</tr>
<tr>
<td>Clinical and epidemiological studies on cognition in CKD</td>
<td>• Prevalence and risk factors for cognitive impairment in CKD</td>
</tr>
<tr>
<td>Epidemiological studies on optimal care for kidney failure</td>
<td>• Timing of initiation of dialysis&lt;br&gt;• Treatments for anemia, malnutrition, metabolic bone disease&lt;br&gt;• Utilization of preventative services</td>
</tr>
<tr>
<td>Clinical studies of effects of dialysis modality and dose</td>
<td>• HEMO Study&lt;br&gt;• CHOICE Study&lt;br&gt;• Daily dialysis trials</td>
</tr>
<tr>
<td>Clinical and translational studies on mediators of inflammation and oxidative stress in kidney disease</td>
<td>• Leukocyte function and apoptosis&lt;br&gt;• Iron therapy, infection and oxidative stress&lt;br&gt;• Genetic factors influencing outcomes in acute and chronic kidney disease</td>
</tr>
<tr>
<td>Quality management in dialysis networks</td>
<td>• Development of medical information systems&lt;br&gt;• Methods for assessing quality of life, patient satisfaction and comorbidity</td>
</tr>
</tbody>
</table>

Table 11 is continued on the next page.
Table 11 Continued: Areas of Research Emphasis in the Division

45
### Area of Emphasis

- **Clinical studies of immunosuppression and infection in dialysis and kidney transplantation**
  - Relationship of HCV and CMV bacteremia to immunosuppressive drug regimens and iron therapy
- **Epidemiological studies of CKD after kidney transplantation**
  - Complications after kidney transplantation
  - Barriers to care
- **Polycystic kidney disease**
  - Epidemiological studies of the morbidity and mortality of extrarenal and renal complications of ADPKD after ESRD
  - Cardiovascular disease in APDKD
  - Endothelial function in ADPKD
- **Patient-based assessments**
  - Developing computerized quality of life assessment (CKD-CAT)
- **Lupus Nephritis**
  - Induction and maintenance of remission

---

**2010 New Research Grant Awards**

Table 12 lists the 8 new research grants received in 2010.

Table 12: New Research Grant Awards Received in 2010

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Award Source</th>
<th>Type of Award</th>
<th>Title</th>
<th>Study Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Levey</td>
<td>NIH RI Hospital</td>
<td>R01</td>
<td>Folic Acid for Vascular Outcomes Reduction in Transplantation (FAVORIT)</td>
<td>2</td>
</tr>
<tr>
<td>Dr. Levey</td>
<td>NIH/NIDDK Federal Subcontract</td>
<td></td>
<td>Aorta, Brain, and Kidney Structure and Function in the AGES-Reykjavik study</td>
<td>4</td>
</tr>
<tr>
<td>Dr. Levey</td>
<td>NIH/NIDDK Federal Subcontract</td>
<td></td>
<td>Proteomic Approach to CKD Biomarker Discovery and Validation</td>
<td>5</td>
</tr>
<tr>
<td>Dr. Perrone</td>
<td>NIH/NIDDK Federal ARRA supplement</td>
<td></td>
<td>Clinical Centers for the HALT-Polycystic Kidney Disease Trials</td>
<td>1</td>
</tr>
<tr>
<td>Dr. Rao</td>
<td>NIH/NIDDK R56 ARRA</td>
<td></td>
<td>Mitochondrial Injury in the Anemia of Chronic Kidney Disease</td>
<td>2</td>
</tr>
<tr>
<td>Dr. Weiner</td>
<td>DCI Paul Teschan Research Grant Foundation</td>
<td></td>
<td>Transglutaminase 2 and Vascular Calcification in CKD-A Pilot Study</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Tufts University Foundation</td>
<td></td>
<td>Novel biomarkers of Vascular Calcification in CKD</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ASN Foundation</td>
<td></td>
<td>Medical Economics &amp; Ecologic Impact of Dialyzer</td>
<td>3</td>
</tr>
</tbody>
</table>
Total Amount and Type of Research Grant Awards

Figure 1 and Table 13 demonstrate the increasing numbers and dollars of research grant awards received by Division members.

In 2010, Drs. Perrone and Rao each received a new research grant award funded by the American Recovery and Reinvestment Act.

Figure 1: Division of Nephrology Research Grant Awards 2005-2010, by type
4 Division members hold a NIH-funded Clinical Research Career Development Grant (K23).

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

Table 13: Ongoing Research Grant Awards Received Prior to 2010

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Award Source</th>
<th>Type of Award</th>
<th>Title</th>
<th>Year of Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Balakrishnan</td>
<td>NIH/NIDDK, George Washington U.</td>
<td>Federal Subcontract</td>
<td>Cytokine Gene Polymorphisms in the CRIC Cohort</td>
<td>2006</td>
</tr>
<tr>
<td>Dr. Levey</td>
<td>NIH/NIDDK, Amgen, Inc.</td>
<td>Federal T32</td>
<td>Epidemiology, Clinical Trials and Outcomes Research</td>
<td>1999</td>
</tr>
<tr>
<td>Drs. Levey, Uhlig &amp; Stevens</td>
<td>National Kidney Foundation</td>
<td>Industry</td>
<td>Trial to Reduce Cardiovascular Events with Aranesp Therapy</td>
<td>2006</td>
</tr>
<tr>
<td>Dr. Meyer</td>
<td>Tyco Health, DCI</td>
<td>Industry</td>
<td>Tufts Center for Clinical Practice Guideline Development and Implementation</td>
<td>2008</td>
</tr>
<tr>
<td>Dr. Miskulin</td>
<td>NIH/NIDDK, DCI</td>
<td>Federal K23</td>
<td>Case-Mix and its Effects on Quality Indicators in ESRD</td>
<td>2004</td>
</tr>
<tr>
<td></td>
<td>DCI</td>
<td>Foundation</td>
<td>Decision Support fro Anemia Management in Hemodialysis Patients</td>
<td>2008</td>
</tr>
<tr>
<td>Dr. Perrone</td>
<td>NIH/NIDDK, Parexel International, LLC</td>
<td>Federal U01</td>
<td>Polycystic Kidney Disease Clinical Trials Network</td>
<td>2002</td>
</tr>
<tr>
<td>Dr. Rao</td>
<td>National Kidney Foundation</td>
<td>Foundation</td>
<td>Chronic Kidney Disease Anemia Beyond Erythropoietin Deficiency—The Role of Mitochondrial Injury</td>
<td>2008</td>
</tr>
</tbody>
</table>

Table 13 is continued on the next page.
Table 13 Continued: Ongoing Research Grant Awards Received Prior to 2010

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Award Source</th>
<th>Type of Award</th>
<th>Title</th>
<th>Year of Initial Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Rao</td>
<td>NIH/NIDDK</td>
<td>Federal K23</td>
<td>TGF-Beta 1 and PAI-1 Genotypes in CKD</td>
<td>2004</td>
</tr>
<tr>
<td></td>
<td>NIH/NIA</td>
<td>Federal R21</td>
<td>Somatic Mitochondrial Injury and Anemia in Elderly Patients with CKD</td>
<td>2007</td>
</tr>
<tr>
<td>Dr. Richardson</td>
<td>Amgen, Inc.</td>
<td>Industry</td>
<td>Dialysis Preceptorship</td>
<td>2007</td>
</tr>
<tr>
<td>Dr. Sarnak</td>
<td>NIH/NIDDK</td>
<td>Federal R01</td>
<td>Cognition and Dialysis</td>
<td>2008</td>
</tr>
<tr>
<td></td>
<td>NIH/NIDDK</td>
<td>Federal R01</td>
<td>Does Kidney Function Determine Aging Success?</td>
<td>2005</td>
</tr>
<tr>
<td></td>
<td>NIH/NIDDK</td>
<td>Federal R21</td>
<td>Cardiac Risk Factors in Chronic Kidney Disease</td>
<td>2006</td>
</tr>
<tr>
<td></td>
<td>NIH/NHLBI University of</td>
<td>Federal</td>
<td>Mineral Metabolism and Cardiovascular Risk among Older Adults</td>
<td>2007</td>
</tr>
<tr>
<td></td>
<td>Washington</td>
<td>Subcontract</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NIH/NIDDK</td>
<td>Federal K24</td>
<td>Chronic Kidney Disease, Vascular Disease and Aging</td>
<td>2007</td>
</tr>
<tr>
<td>Tap Pharmaceutical</td>
<td>Industry</td>
<td></td>
<td>Does Uric Acid Promote Progression of Kidney Disease and Development</td>
<td>2007</td>
</tr>
<tr>
<td></td>
<td>Products, Inc.</td>
<td></td>
<td>of Cardiovascular Disease in Patients with Chronic Kidney Disease?</td>
<td></td>
</tr>
<tr>
<td>Drs. Sarnak &amp; Weiner</td>
<td>Amgen, Inc.</td>
<td>Industry</td>
<td>CKD in Pooled Population</td>
<td>2005</td>
</tr>
<tr>
<td>Dr. Stevens</td>
<td>Gilead</td>
<td>Industry</td>
<td>Evaluation of GFR Estimating Equations in HIV-Positive Patients</td>
<td>2008</td>
</tr>
<tr>
<td></td>
<td>DCI</td>
<td>Foundation</td>
<td>Validity and Reliability of a Novel GFR Marker</td>
<td>2008</td>
</tr>
<tr>
<td></td>
<td>NIH/NIDDK</td>
<td>Federal K23</td>
<td>Kidney Function and Aging</td>
<td>2008</td>
</tr>
<tr>
<td></td>
<td>NIH/NIDDK</td>
<td>Federal K23</td>
<td>Kidney Function and Aging</td>
<td>2009</td>
</tr>
<tr>
<td>Dr. Tangri</td>
<td>Kidney Foundation of Canada</td>
<td>Foundation</td>
<td>Derivation and Validation of a Simplified Predictive Model for</td>
<td>2008</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Progression to End Stage Renal Disease</td>
<td></td>
</tr>
<tr>
<td>Dr. Weiner</td>
<td>NIH/NIDDK</td>
<td>Federal K23</td>
<td>Kidney Disease, Stroke and Cognitive Impairment</td>
<td>2005</td>
</tr>
</tbody>
</table>

2010 Division Publications

A total of 88 publications were authored and/or co-authored by Division members in 2010. An asterisk beside a name indicates a current trainee as an author.


37. **Levey AS, Stevens LA**. Estimating GFR using the CKD Epidemiology Collaboration (CKD-EPI) creatinine equation: more accurate GFR estimates, lower


GFR levels above 60 mL/min/1.73m². Am J Kidney Dis 2010;56:486-95.


2010 Research Awards and Honors

- Dr. Meyer is a member of the Data Safety Monitoring Board at the Harvard Clinical Research Institute in Boston MA for the HERCULES Study of Renal Artery Stenting.

- Dr. Sarnak is a member of the data safety monitoring board for the PRIMO Study: Paracalciticol Capsules Benefits in Renal Failure Induced Cardiac Morbidity in Subjects with Chronic Kidney Disease.

- Since 2009, Dr. Sceppa was a grant reviewer for the Brookdale Leadership in Aging Fellowship Program.

- Dr. Sceppa is also a grant reviewer for the Directors of the Diabetes Australia Research Trust.

- Dr. Stevens is a member of the external advisory committee of the NIDDK-funded Hemodialysis Fistula Maturation which is a prospective multi-center observational cohort study investigating factors associated with the failure of arteriovenous fistulas to mature.
Education

The Division is committed to education. Local and national initiatives involve all members of the Division. National efforts stem largely from leadership and participation in basic and clinical research, service to national organizations and boards that establish standards in clinical practice and educational testing, and speaking engagements at local, national, and international conferences. Affiliations with TUSM, TUSDM, the Friedman School of Nutrition Science and Policy, and the Sackler School of Graduate Biomedical Sciences at Tufts University are the focus of most of our local education initiatives. Table 14 and Table 15 list ongoing teaching initiatives by Division members.

2010 Education Initiatives

Postgraduate-level Initiatives

- In December, the ACGME reviewed the Division’s fellowship program and everything went exceptionally well. Dr. Gilbert’s hard work in making our program truly outstanding and his tireless preparation for the site visit was evident during the review. The reviewer was very impressed with the structure of our program, the strength of our faculty, and the clear commitment to fellow education. We await the formal results of the review in 2011.

- The mentoring program for fellows was formalized this year. The program is designed to provide fellows an opportunity to review their interests, professional development, and personal challenges with a staff member to ensure their progress in the training program and their academic direction is consistent with their career goals. The supervising attending in fellows’ continuity clinic serves as their default mentor. After consulting with the Program Director, fellows may change their mentor to better reflect their individual career goals. It is expected that each fellow and mentor will meet every 1-2 months to review personal and professional progress, and strategies for continued career growth.

Division Members teach at 5 schools including:

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

### Table 14: Longstanding Graduate-level Teaching Initiatives by Division Members

<table>
<thead>
<tr>
<th>School</th>
<th>Course</th>
<th>Personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>TUSM</td>
<td>Renal Pathophysiology Course</td>
<td>Dr. Gilbert, Course Director</td>
</tr>
<tr>
<td></td>
<td>Physical Diagnosis Course</td>
<td>Nephrology fellows and several members of the</td>
</tr>
<tr>
<td></td>
<td>Renal Ward Service</td>
<td>Division Attendings</td>
</tr>
<tr>
<td></td>
<td>4-part clinical nephrology series for</td>
<td>Dr. Gilbert</td>
</tr>
<tr>
<td></td>
<td>Internal Medicine Clerkship</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Consultative Nephrology</td>
<td>Dr. Gilbert, Course Director</td>
</tr>
<tr>
<td></td>
<td>Evidence-based medicine elective</td>
<td>Dr. Gilbert, Course Co-Director</td>
</tr>
<tr>
<td></td>
<td>Cell and Molecular Pharmacology</td>
<td>Dr. Gilbert, Nephrology Section Leader</td>
</tr>
<tr>
<td></td>
<td>Evidence Based Medicine</td>
<td>Dr. Uhlig, Consultant</td>
</tr>
<tr>
<td></td>
<td>Selective Program Mentor</td>
<td>Dr. Weiner</td>
</tr>
<tr>
<td>Tufts University School of Dental</td>
<td>Lectures on topics related to</td>
<td>Drs. Meyer and Weiner</td>
</tr>
<tr>
<td>Medicine</td>
<td>hypertension and nephrology</td>
<td></td>
</tr>
<tr>
<td>Friedman School of Nutrition Science</td>
<td>Lectures on kidney disease, hypertension</td>
<td>Drs. Balakrishnan, Meyer, and Weiner</td>
</tr>
<tr>
<td>and Policy</td>
<td>and nephrology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nutritional Biochemistry and Physiology</td>
<td>Dr. Gilbert, Nephrology Section Leader</td>
</tr>
<tr>
<td>Sackler School of Graduate Biomedical</td>
<td>Renal Pharmacology</td>
<td>Dr. Gilbert</td>
</tr>
<tr>
<td>Sciences at Tufts</td>
<td>Introduction to Meta-Analysis</td>
<td>Dr. Uhlig, Co-faculty</td>
</tr>
<tr>
<td>The Francis Stern Nutrition Center at</td>
<td>4-week experiential rotation in DCI Boston</td>
<td>Poonhar Poon, RD</td>
</tr>
<tr>
<td>Tufts Medical Center</td>
<td>dialysis unit</td>
<td></td>
</tr>
</tbody>
</table>

### Table 15: 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</td>
<td>Mentor fellows during their independent research and</td>
<td>Drs. Levey, Balakrishnan, Sarnak, &amp; Uhlig</td>
</tr>
<tr>
<td>Tufts University</td>
<td>thesis preparation in pursuit of a Masters of Science</td>
<td></td>
</tr>
<tr>
<td>TUSM Department of Pharmacology and Experimental</td>
<td>Coordinate the Nephrology Section of the Advanced</td>
<td>Dr. Gilbert</td>
</tr>
<tr>
<td>Therapeutics</td>
<td>Molecular and Cellular Pharmacology Course</td>
<td></td>
</tr>
<tr>
<td>Tufts Medical Center</td>
<td>Renal Ward Service Nephrology Consultation Service</td>
<td>Division Attendings</td>
</tr>
<tr>
<td></td>
<td>Intern and Resident Teaching</td>
<td></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 emphasizing breath and depth of clinical knowledge, rotations at Tufts Medical Center and SEMC, and continuous evaluation all result in a highly successful program.

Over the past 14 years, approximately 42% of the 33 graduates of the fellowship program have continued in full-time academic positions. Another 27% have become private practitioners with substantial teaching responsibilities, many in hospitals with university affiliations. The remaining graduates are largely engaged in private practice.

During the past academic year, 263 applications to the clinical fellowship program were reviewed for 1 open positions available in 2011. Table 16 and Table 17 list graduating and current clinical fellows.

Table 16: Graduated Clinical Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ezra Gabbay, MD, MS</td>
<td>2009-2010</td>
<td>Academic Nephrologist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Division of Adult Nephrology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shaare Zedek Medical Center</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jerusalem, Israel</td>
</tr>
<tr>
<td>Cindy Huang, MD, PhD</td>
<td>2009-2010</td>
<td>Private Practice Nephrologist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DuPont III, PC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Washington Hospital Center</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Washington DC</td>
</tr>
<tr>
<td>Siddhartha Kakani, MD</td>
<td>2008-2010</td>
<td>Hospitalist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Allegiant Health</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Omaha, NE</td>
</tr>
<tr>
<td>Cynthia Sfeir, MD</td>
<td>2008-2010</td>
<td>Private Practice</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Medical Group</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Beverly MA</td>
</tr>
</tbody>
</table>
Research Fellowship Training

Continuing Research Fellowship Training Initiatives

The Division offers training in clinical research and fellows can elect to participate in research projects at SEMC under the direction of Drs. Jaber, and Madias.

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

**Research Fellowship Program Statistics**

We have 3 current research fellows in training. We received 125 applications in 2010 for 3 open research fellowship positions in 2011. See Table 18 and Table 19 for listings of graduated and current research fellows.

**Table 18: Graduated Research Fellows**

<table>
<thead>
<tr>
<th>Name</th>
<th>Training Period</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aneet Deo, MD, MS</td>
<td>2008-2010</td>
<td>Clinical Nephrology Fellow Tufts Medical Center Boston, MA</td>
</tr>
<tr>
<td>Shani Shastri, MD, MS</td>
<td>2008-2010</td>
<td>Clinical Nephrology Fellow Tufts Medical Center Boston, MA</td>
</tr>
</tbody>
</table>

**Table 19: 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>Smita Padala, MD</td>
<td>Rhode Island Hospital Providence RI</td>
<td>Lesley A. Stevens, MD, MS</td>
<td>Division Funds</td>
</tr>
<tr>
<td>Navdeep Tangri, MD</td>
<td>Clinical Nephrology Fellow Tufts Medical Center Boston MA</td>
<td>Andrew S. Levey, MD</td>
<td>Kidney Foundation of Canada</td>
</tr>
<tr>
<td>Gautham Viswanathan, MD</td>
<td>St. Catherine’s Hospital East Chicago IN</td>
<td>Lesley A. Stevens, MD, MS</td>
<td>Division Funds</td>
</tr>
</tbody>
</table>

**Continuing Medical Education**

**2010 Medical Education Initiatives**

- In February 2011, Division members presented at the combined Schwartz Center/Medicine Grand Rounds. The presentation entitled “Whether to Stop Dialysis: ‘It’s Hard to Say’” was moderated by Paul Thayer and the discussion was led by Dr. **Meyer**, Kathleen Murray, MSW, LICSW, Yin-Fong Lam, MSW, LICSW, and **Jean McCorry, RN, BSN**. The Schwartz Center Rounds is a multidisciplinary forum where clinical caregivers discuss difficult emotional and social issues that arise in caring for patients.
Continuing Medical Education Initiatives

- The Evidence Review Team (ERT) at the Tufts Center for Kidney Disease Guideline Development and Implementation trains Work Group members in methods of guideline development. The Office of Continuing Education at Tufts University Medical School provides CME credit to physician participants. The ERT presentations held in 2010 are listed in Table 20.

Table 20: Tufts Center for Guideline Development and Implementation ERT Presentations

<table>
<thead>
<tr>
<th>Meeting</th>
<th>ERT Presentations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KDIGO AKI:</strong></td>
<td>Katrin Uhlig, MD, MS</td>
</tr>
<tr>
<td>4th Work Group Meeting</td>
<td>● Refresher on Grading</td>
</tr>
<tr>
<td>October 16-17, 2009</td>
<td></td>
</tr>
<tr>
<td>Brussels, Belgium</td>
<td></td>
</tr>
<tr>
<td>0 hours CME credit</td>
<td></td>
</tr>
<tr>
<td><strong>KDIGO GN:</strong></td>
<td>Ethan Balk, MD, MPH</td>
</tr>
<tr>
<td>2nd Work Group Meeting</td>
<td>● Review Progress Since 1st Work Group Meeting</td>
</tr>
<tr>
<td>November 20-22, 2009</td>
<td>● Review Process</td>
</tr>
<tr>
<td>Amsterdam, Netherlands</td>
<td>– Systematic Review Process</td>
</tr>
<tr>
<td>0 hours CME credit</td>
<td>– Extraction Forms/ Summary Tables/Evidence Profiles</td>
</tr>
<tr>
<td><strong>KDIGO BP:</strong></td>
<td>Katrin Uhlig MD, MS and Ashish Upadhyay, MD, MS</td>
</tr>
<tr>
<td>1st Work Group Meeting</td>
<td>● Process of Systematic Guideline Development</td>
</tr>
<tr>
<td>January 16-17, 2010</td>
<td>– Guideline Process Recap</td>
</tr>
<tr>
<td>Boston, MA</td>
<td>– Current Topics for Guideline</td>
</tr>
<tr>
<td>2 hours CME credit</td>
<td>– Formulating Good Questions and Defining PICO-DD Criteria: Introduction</td>
</tr>
<tr>
<td></td>
<td>– PICO-DD Criteria: Specifics</td>
</tr>
<tr>
<td></td>
<td>● Grading Quality</td>
</tr>
<tr>
<td></td>
<td>– Preliminary Data Search and Results</td>
</tr>
<tr>
<td></td>
<td>– Using Existing Systematic Reviews/Guidelines</td>
</tr>
<tr>
<td></td>
<td>– Extraction forms/Summary Tables/Evidence Profiles</td>
</tr>
<tr>
<td></td>
<td>● Example from start to (near) finish: BP agents in DKD</td>
</tr>
</tbody>
</table>

Table 20 is continued on the next page.
<table>
<thead>
<tr>
<th>Meeting</th>
<th>ERT Presentations</th>
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</thead>
<tbody>
<tr>
<td><strong>KDIGO GN:</strong></td>
<td>Ethan Balk, MD MPH</td>
</tr>
<tr>
<td>3rd Work Group Meeting</td>
<td>• Guideline Structure and Format</td>
</tr>
<tr>
<td>January 22-24, 2010</td>
<td>Boston, MA</td>
</tr>
<tr>
<td>0 hours CME credit</td>
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</tbody>
</table>

| **KDIGO Anemia:**             | Ethan Balk, MD MPH; Dana Miskulin, MD MS; Amy Earley, BS                          |
| Chairs Work Group Meeting     | • Overview of steps for production of guidelines                                    |
| March, 16-17, 2010            | Ethan Balk, MD MPH                                                                 |
| Boston, MA                    | • Overview of Steps for Systematic Review                                          |
|                              |   – Question Formulation etc. – PICO-D                                           |
|                              |   – Data Extraction                                                              |
|                              |   – Study Quality Appraisal                                                      |
|                              |   – Summary Tables                                                              |
|                              | • Existing Systematic Reviews and Other Guidelines                                |
|                              |   – Questions and Criteria Used for KDOQI guidelines                             |
|                              |   – GRADE and Evidence Profiles for Appraisal of Bodies of Evidence              |
|                              |   – Levels of Recommendations (1-2) and Quality of Evidence (A-D)                |
|                              |   – Focus on Outcomes: Clinical vs. Intermediate Outcomes                         |
|                              |   – Focus on Study Design: RCT, Other Intervention, Observational, Diagnostic     |
| 0 hours CME credit            |                                                                                   |

| **KDIGO CKD:**                | Katrin Uhlig, MD MS                                                                |
| Chair Meeting                 | • Introduction to KDIGO Guideline Development                                      |
|                              | • Partners in Guideline Development and Tasks                                      |
| June 7-8, 2010                | • Overview of Steps for Systematic Review                                          |
|     Boston, MA                |   – Question Formulation – PICO-D                                                 |
|                              |   – Data Extraction                                                              |
|                              |   – Study Quality Appraisal                                                      |
|                              |   – Summary Tables                                                              |
|                              | • GRADE and Evidence Profiles for Appraisal of Bodies of Evidence                |
|                              |   – Levels of Recommendations (1-2) and Quality of Evidence (A-D)                |
|                              | • Approach to Evidence Review for KDIGO CKD Guideline                             |
Table 21 lists the continuing education presentations given by Division faculty in 2010. The table excludes presentations given within the Division, as all faculty are expected to present one Journal Club and one Research Conference annually, and also excludes the Tufts Center ERT presentations listed in Table 20.

Table 21: 2010 Local, National, and International Presentations by Division Faculty

**LOCAL/REGIONAL PRESENTATIONS**

<table>
<thead>
<tr>
<th>Dr. Gilbert</th>
<th>Acute Kidney Injury</th>
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<tbody>
<tr>
<td></td>
<td>Medical Grand Rounds</td>
</tr>
<tr>
<td></td>
<td>St. Elizabeth’s Medical Center</td>
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<tr>
<td></td>
<td>Boston MA</td>
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<tr>
<td></td>
<td>Acute Kidney Injury</td>
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<tr>
<td></td>
<td>Medical Grand Rounds</td>
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<tr>
<td></td>
<td>Newton-Wellesley Hospital</td>
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<tr>
<td></td>
<td>Newton MA</td>
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<tr>
<td></td>
<td>Renal Artery Stenosis</td>
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<td></td>
<td>Medical Grand Rounds</td>
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<tr>
<td></td>
<td>St. Anne’s Hospital</td>
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<td></td>
<td>Fall River MA</td>
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<tr>
<td></td>
<td>New Challenges in Management of Hypertension</td>
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<tr>
<td></td>
<td>Medical Grand Rounds</td>
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<tr>
<td></td>
<td>Carney Hospital</td>
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<tr>
<td></td>
<td>Dorchester MA</td>
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<table>
<thead>
<tr>
<th>Dr. Jaber</th>
<th>Inflammatory Aspects of Acute Kidney Injury</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Research Seminar, Center for Engineering in Medicine</td>
</tr>
<tr>
<td></td>
<td>Massachusetts General Hospital, Shriners Hospital</td>
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<tr>
<td></td>
<td>Boston MA</td>
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<tr>
<td></td>
<td>Early Detection Markers in Acute Kidney Injury</td>
</tr>
<tr>
<td></td>
<td>Anesthesiology Grand Rounds</td>
</tr>
<tr>
<td></td>
<td>UMass Memorial Medical Center</td>
</tr>
<tr>
<td></td>
<td>Worcester MA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dr. Levey</th>
<th>CKD Definition, Staging and Prognosis: A KDIGO Controversies Conference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ends in Consensus</td>
</tr>
<tr>
<td></td>
<td>National Kidney Foundation Medical Advisory Board Meeting</td>
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<tr>
<td></td>
<td>Worcester, MA</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Dr. Meyer</th>
<th>Kidney Failure and Dialysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Medical Grand Rounds</td>
</tr>
<tr>
<td></td>
<td>Morton Hospital and Medical Center</td>
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<tr>
<td></td>
<td>Taunton MA</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Dr. Sarnak</th>
<th>Renal Grand Rounds</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Beth Israel Medical Center</td>
</tr>
<tr>
<td></td>
<td>Boston MA</td>
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</tbody>
</table>

Table 21 is continued on the next page.
Table 21 Continued: 2010 Local, National, and International Presentations by Division Faculty

Dr. Stevens  GFR Estimation for Internists: Importance, Clinical Use, Derivation, and Future Prospects.  
Medical Grand Rounds  
St. Elizabeth’s Medical Center  
Boston MA

Dr. Uhlig  Grading Evidence and Recommendations; Appraising Existing Systematic Reviews; and Clinical Practice Guidelines  
Faculty and Speaker  
2nd Annual Comparative Effectiveness and Cost Effectiveness: Methods and Measurement Short Course  
Tufts University School of Medicine  
Boston MA

Dr. Upadhyay  Overview of Diabetic Kidney Disease  
Division of Endocrinology Research Conference  
Tufts Medical Center  
Boston MA

Kidney Disease: Covering the Waterfront  
Lowell General Hospital Grand Rounds  
Lowell MA

Dr. Weiner  CKD in the Elderly  
Medical Grand Rounds  
Metrowest Medical Center  
Framingham MA

NATIONAL PRESENTATIONS

Dr. Jaber  Intradialytic Complications: Case Studies  
The Brigham Renal Board Review Course  
Boston MA

NxStage FREEDOM Study  
Daily Hemodialysis: An Update on Ongoing Registries and Clinical Trials Symposium  
30th Annual Dialysis Conference  
Seattle WA

Frequent Hemodialysis and Alternate Therapies for ESRD  
Nephrology/Hypertension Grand Rounds  
Mayo Clinic  
Rochester MN

Biomarker Studies in Acute Kidney Injury  
Research Forum  
Mayo Clinic  
Rochester MN

Table 21 is continued on the next page.
Table 21 Continued: 2010 Local, National, and International Presentations by Division Faculty

| Dr. Levey              | Chronic Kidney Disease: An Update to the Definition and Classification Based on Prognosis  
University of New Mexico Grand Rounds  
Albuquerque, NM |
|------------------------|--------------------------------------------------------------------------------------------|
|                        | Chronic Kidney Disease: An Update to the Definition and Classification Based on Prognosis  
University of Colorado Medicine Grand Rounds  
Denver CO |
|                        | Estimating GFR using the CKD-EPI Equation: Accuracy and Applications  
University of Colorado Renal Grand Rounds  
Denver CO |
|                        | Reflections on the Gift of Life  
Living Donor Recognition Event  
National Kidney Foundation President’s Retreat  
Madison WI |
|                        | Session Moderator: GFR in the Aging Kidney: Benign Decline or Disease  
American Society of Nephrology 43rd Annual Meeting & Scientific Exposition  
Denver CO |
American Society of Nephrology 43rd Annual Meeting & Scientific Exposition  
Denver CO |

Dr. Madias

| Invited Lecturer | In-Depth Nephrology Course on Assessing and Managing Acid-Base Disorders: Focus on Metabolic Acidosis  
American Society of Nephrology 43rd Annual Meeting & Scientific Exposition  
Denver CO |

Dr. Meyer

| How is Having Chronic Kidney Disease Like Taking the Boards?  
Renal Research Institute Annual Meeting,  
New Orleans LA |
|--------------------------------------------------------------------------------------------|
| Information Technology Update  
Medical Information Steering Committee  
Dialysis Clinic, Inc  
Nashville TN |
| Treating the Patient and the Chart: Using Computers to Measure Quality of Life, Manage our Facilities and Practices, and Make Us Interoperable,  
Medical Directors Advisory Committee  
Dialysis Clinic, Inc.  
Nashville TN |

Table 21 is continued on the next page.
Table 21 Continued: 2010 Local, National, and International Presentations by Division Faculty

**Dr. Perrone**
Polycystic Kidney Disease: Translating Mechanisms into Therapy
Session IX: Management of ADPKD Today
American Society of Nephrology 43rd Annual Meeting & Scientific Exposition
Denver CO

**Dr. Sarnak**
Intradialytic Hypertension
30th Annual Dialysis Conference
Seattle WA

Renal Grand Rounds and Visiting Professor
University of Pittsburgh Medical Center
Pittsburgh PA

Cardiac Biomarkers in CKD
2010 National Kidney Foundation Spring Clinical Meeting
Orlando FL

Cardiovascular Risk Factors in CKD
Massachusetts General Hospital Nephrology Review Course
Boston MA

Moderator and Invited Speaker on Epidemiology and Overview
Chronic Kidney Disease and Cardiovascular Disease. Is there Something Special about Risk, Treatment, and Outcomes
American Heart Association Scientific Sessions 2010
Chicago IL

Serum and Urine Biomarkers of Kidney Disease in the Elderly
American Society of Nephrology 43rd Annual Meeting & Scientific Exposition
Denver CO

Intradialytic Hypertension. A New Entity or an Old Problem.
American Society of Nephrology 43rd Annual Meeting & Scientific Exposition
Denver CO

**Dr. Sceppa**
A Community-based Intervention for Puerto Rican Adults' Heart Health: Center for Population Health and Health Disparities
Gerontology Institute Colloquium Series
University of Massachusetts
Boston MA

Good Nutrition Promotes Health
Health Careers Opportunity Program.
High School Students Health Careers Academy Summer Institute
University of Massachusetts
Boston MA

Effect of Intra-dialytic, Low-intensity Strength Training on Functional Capacity in Adult Hemodialysis Patients: A Randomized Pilot Trial
Network of Minority Research Investigators
Washington DC

Table 21 is continued on the next page.
Table 21 Continued: 2010 Local, National, and International Presentations by Division Faculty

Dr. Stevens
What All Oncologists Need to Know About Estimated Glomerular Filtration Rate
Genitourinary Cancers Symposium
San Francisco CA.

New Equations for Staging CKD
2010 National Kidney Foundation Spring Clinical Meeting
Orlando FL

Clinical Use of Estimated Glomerular Filtration Rate
Nephrology 2010 Course Agri Meetings
Boston MA

Dr. Stevens
Calculating Drug Doses in CKD
KDIGO Controversies Conference on Drug Prescribing in CKD: Initiative for Improved Dosing
Baltimore MD

Dr. Uhlig
Making Clinical Practice Guidelines ‘Better’
Invited speaker and panelist, Workshop on Standards for Clinical Practice Guidelines
Institute of Medicine’s Committee on Standards for Developing Trustworthy Clinical Practice Guidelines
Washington DC

2010 National Kidney Foundation Spring Clinical Meeting
Orlando FL

Dr. Weiner
Publishing Comparative Effectiveness Research
American Society of Nephrology 43rd Annual Meeting & Scientific Exposition
Denver CO

INTERNATIONAL PRESENTATIONS

Dr. Jaber
Effect of Daily Hemodialysis on Depressive Symptoms and Postdialysis Recovery Time: Interim Report from the FREEDOM Study
Spindial Satellite Symposium
51st National Congress, Italian Society of Nephrology
Rimino, Italy

Dr. Levey
Report of the NKF-FDA conference on proteinuria as surrogate marker of kidney disease progression
National Kidney Foundation Albuminuria Symposium
Amsterdam, Netherlands

Dr. Madias
Invited Lecturer
4th Panhellenic Congress of Atherosclerosis
Ioannina, Greece

Table 21 is continued on the next page.
Table 21 Continued: 2010 Local, National, and International Presentations by Division Faculty

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Rao</td>
<td>Workshop—Methods and tools for analysis in gene association studies</td>
</tr>
<tr>
<td></td>
<td>Christian Medical College and Hospital</td>
</tr>
<tr>
<td></td>
<td>Vellore, India</td>
</tr>
<tr>
<td>Dr. Stevens</td>
<td>Evaluation of estimated GFR and how to use eGFR in prescribing drugs with renal elimination</td>
</tr>
<tr>
<td></td>
<td>Stockholm, Sweden</td>
</tr>
</tbody>
</table>

**Editorial Appointments**

**American Journal of Kidney Diseases**

The Division houses the editorial office of the *American Journal of Kidney Diseases* (AJKD), the official journal of the NKF, and division members lead a multi-institution effort to continue to enhance AJKD’s position as the preeminent clinical journal in nephrology. The first issue of AJKD compiled by Tufts Medical Center appeared in January 2007.

Dr. Levey is the Editor-in-Chief and Dr. Weiner serves as the Deputy Editor. Other Tufts Medical Center-based editors of AJKD include Drs. Balakrishnan, Gilbert, and Schmid, and Mr. Tighiouart. The Editorial Board includes five additional Editors affiliated with other local hospitals, as well as 28 Associate Editors worldwide. Dr. Harrington is a Tufts Medical Center-based Associate Editor. In 2010, the editorial team was awarded a second 5-year term.

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

Continuing a trend of increasing manuscript submissions, AJKD received over 1,300 submissions in the 2010 operating year, with 19% accepted for publication. Over the past year, AJKD editors have concentrated on building and sustaining multiple journal features. These features include “In Translation”, which analyzes developments in basic science with diagnostic or therapeutic implications in the clinical practice of nephrology; “In Practice”, which examines clinical topics beyond nephrology that affect nephrologists daily; “The Acid-Base & Electrolyte Teaching Case”, which educates clinicians on acid-base and electrolyte pathophysiology and the interpretation of serum and urine chemistries in clinical practice; and “In a Few Words”, which describes the experiences of clinical practice.

Finally, AJKD continues to be a strong advocate of World Kidney Day. In March 2010 the editors highlighted kidney disease as a public health problem in the United States,
focusing on an article is titled “Comprehensive Public Health Strategies for Preventing the Development, Progression, and Complications of Chronic Kidney Disease: Report of an Expert Panel Convened by the Centers of Disease Control and Prevention.” This article was the product of a 2007 Technical Expert Panel co-chaired by Dr. Levey and Dr. William McClellan at Emory University in Atlanta, GA. The panel of experts designed a comprehensive public health strategy to prevent the development and complications of chronic kidney disease in the US. This trend will continue in 2010, with the editors highlighting CKD in developing nations around the world.

Other Editorial Board Appointments

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

- Dr. Jaber is a member of the Nephron Clinical Practice Editorial Board.

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

- Dr. Perrone is the cystic kidney disease editor for Up to Date.

- Dr. Richardson is the Editorial Board Chair for the 7th edition of the Pharmacotherapy Self-assessment Program (PSAP) series. The PSAP series is a premier publication of the American College of Clinical Pharmacy and is modeled after the Medical Knowledge Self-Assessment Program. The program is designed as a self-assessment tool to assist pharmacists in sharpening their clinical skills and keeping abreast in therapeutic areas with updated standards of practice.

- In 2010, Dr. Sarnak began his term as a member of the Editorial Board for the Annals of Internal Medicine.
2010 Education Awards and Honors

• In 2010, the Tufts Medical Center Housestaff rated the Renal Ward Service as the second best inpatient educational experience and the Renal Clinic rotation as their best overall educational experience.

• Several Division members received teaching awards from the 3rd year medical school class at TUSM. Drs. Balakrishnan (notable), Gilbert (accomplished), and Sarnak (notable) were recognized by the students for their teaching in the medical clerkship at Tufts Medical Center. Our pediatric nephrology colleague, Dr. Milner, was also recognized by the same students for his accomplished teaching.

• Dr. Gilbert was featured in the Faculty Focus section of the Office of Educational Affairs February newsletter.

• Dr. Gilbert received the Milton O. M30 and Natalie V. Zucker Clinical Teaching Prize for Accomplishment. The 2 awards – one for innovation and one for accomplishment – were established in 1998 to promote and honor excellence in clinical teaching. The awards are given annually to clinical teaching faculty for the purpose of: 1. Rewarding and recognizing specific faculty for outstanding innovation, accomplishment, and ability to motivate students and 2. Encouraging all faculty to review those attributes needed to be an effective teacher.

There is an extensive nomination and award process. Department chairs, division chiefs, and other members of the faculty submit nominations, which are reviewed and voted on by the Curriculum Committee. Then, the Zucker Clinical Teaching Prize Selection Committee (Dean of the Medical School, the Dean for Educational Affairs, Dean for Students, and the Curriculum Committee Chair) selects the winners. At the request of Mrs. Zucker, the committee strives for balance between recognition of past accomplishments and promising innovations, and between male and female nominees.

• Dr. Gilbert was awarded an Excellence in Teaching Award by the Senior Class (M2010) of TUSM. The award itself is quite an honor as it is the students who select the recipients. However, even more amazing is this is the 6th time that Scott has received this award (2004, 2005, 2006, 2007, 2008, 2010)!

• Dr. Gilbert also received the Outstanding Lecturer for 2009-2010 from TUSM.

• Dr. Gilbert is a 2010-2011 Tisch College Faculty Fellow. The goals of this program are to: build the capacity of Tufts faculty to conduct research and teaching with/for active citizenship (or public service, civic engagement, or community leadership); encourage and support faculty leadership to build active citizenship as a defining strength across the University; develop an expanding
interdisciplinary community of Tufts teacher-scholar-active citizens; grow the group of faculty members who are affiliated with Tisch College; and contribute to Tufts' commitment to “knit together” its several schools. Dr. Gilbert is participating in special educational sessions at Tisch College; applying what he learns to a designated individual project (a new or revised course, research project or service endeavor); organizing a group project with other Fellows; and submitting a short final report in May 2011. Once he completes the program, he will join the Tisch Faculty as a secondary academic appointment.

- Dr. Jaber was honored with the 2010 Excellence in Ambulatory Education Honorable Mention from the Internal Medicine Residency Training Program House Staff at SEMC.

- Dr. Jaber was a visiting professor at the Mayo Clinic in Rochester MN.

- Dr. Sceppa was awarded as an Outstanding Professor by the Sister of Sigma Delta Tau Society at Northeastern University.

Public Policy

2010 Policy Initiatives

- Dr. Kassirer was interviewed by Jon Meacham of PBS’s Need to Know about the FDA, the debate about Avandia, and how potentially harmful drugs reach consumers.

- In September, the National Kidney Foundation and the U.S. Food and Drug Administration co-sponsored a workshop on Patient-reported Outcomes in Clinical Trials of Chronic Kidney Disease-related Therapies. Dr. Perrone chaired the planning committee and Dr. Meyer was a member. In addition, Drs. Levey, Richardson, and Stevens were of the 100 invitees who attended and participated in the event. The meeting will result in a position statement providing a report and recommendations on the following: an approach to defining a core set of concepts that represent the essential and defining signs, symptoms, and impacts of kidney disease and its common complications; a core set of endpoint measures for use in CKD clinical trials and gaps in current measures; a specific context of use and a core set of concepts required before developing PROs; problems with standard PRO instruments and how to adapt existing PRO instruments to more specific contexts or develop one de novo; discuss endpoint model options for CKD clinical trials in the specific subgroups identified and identify endpoint measures that could serve as primary or key secondary endpoints in CKD clinical trials; and create a consensus of the most important endpoint measures in need of further development.
Continuing Policy Initiatives

Expert Panel Appointments/Consultancies

- Dr. Stevens is a member of the National Institute for Diabetes, Digestive and Kidney Disease: United States Renal Data System External Advisory Committee.

- Dr. Stevens is the co-chair of the KDIGO Renal Working Group which in conjunction with the World Health Organization will revise ICD-10 towards development of ICD-11.

- Since 2007, Dr. Uhlig has been a consultant to the Society of Gynecological Surgeons Systematic Review Group in the for evidence review and development of two evidence-based clinical practice guidelines. Her role has included being a methods consultant, member of evidence review group and guideline writing group, and a co-organizer and workshop faculty.

- Dr. Uhlig is a Technical Expert Panel Member for a group commissioned by the Minnesota Evidence Practice Center for AHRQ Systematic Review on early Chronic Kidney Disease.

- Dr. Uhlig is also a member of the Expert Panel commissioned by AHRQ to evaluate the www.guideline.gov initiative.

- Dr. Weiner is a member of the CMS ESRD Clinical Technical Expert Panel on Dialysis Access Related Infections.

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. This research is being funded by the World Bank, Compliance Advisor Ombudsman’s Office and its objective is to explore the reported high prevalence of kidney disease among working age residents in rural northwest Nicaragua to better define prevalence and to develop hypotheses regarding cause.

DCI Information Systems

Dr. Meyer serves as Medical Director for Information Systems for Dialysis Clinic, Inc., chairs its Medical Director Computer Steering Committee, and serves on its Quality Management Committee. Dr. Meyer is one of the principal architects of DCI’s information system, which sets an industry standard for quality of care and of
information, and continues to participate in its development. The team’s current projects include continued development of decision support tools for treatment of dialysis patients’ anemia and the implementation of an interface between hemodialysis machines and the information system.

DCI Outcomes Monitoring Program

Dr. Richardson directs the corporate-wide DCI Outcomes Monitoring Program. The program has two facets, one is the use of patient experience data to improve care, and the other is the collection of high-quality comorbidity data. Patient experience is assessed using the SF-36+24 or the KDQOL-36 questionnaire and a patient satisfaction questionnaire. Data are collected from all DCI chronic dialysis units. The current HRQOL database contains over 200,000 observations from more than 45,000 dialysis patients. The new Conditions for Coverage issued in 2008 by the Centers for Medicare and Medicaid Services have resulted in significant changes for the program. In 2009, the OMP staff revised all of their systems to meet the new mandate that dialysis patients complete health status questionnaires on a regular basis. DCI now uses a custom computerized program that is one-of-a-kind.

Dr. Miskulin and Alice A. Martin, RN lead the Comorbidity Assessment Program. Using DCI data, Dr. Miskulin is examining the center variability in meeting targets for ESRD Clinical Performance Measures and the extent to which case-mix (comorbidity) explains these differences. She is also studying the effects the new proposed bundling payment system will have on care delivery. They have also been working with DCI staff to develop and implement a Nursing Assessment to meet requirements for the new CMS Conditions for Coverage for ESRD Facilities. The form will be electronically entered into the DCI Medical Information System and enable linking of comorbid conditions with the DCI Problem List to enhance comorbidity data collection.

National Kidney Disease Education Program

Drs. Levey and Stevens are members of the National Kidney Disease Education Program (NKDEP) of the NIDDK. Dr. Levey has participated in the efforts of the NKDEP to recommend reporting GFR estimates by clinical laboratories and to standardize serum creatinine assays for more accurate GFR estimation.
Polycystic Disease Database Consortium

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

Tufts Center for Kidney Disease Guideline Development and Implementation

The Tufts Center for Kidney Disease Guideline Development and Implementation (formerly the National Kidney Foundation Center for Clinical Practice Guideline Development and Implementation) was established in July 2003 at Tufts Medical Center. The mission of the Center is to contribute to improvements in the quality of care of individuals with kidney disease within the frameworks of the Kidney Disease Outcomes Quality Initiative (KDOQI) and Kidney Disease: Improving Global Outcomes (KDIGO) initiative.

The aims of the Center are to:

1. Provide service to the NKF
   - in development of KDOQI and KDIGO guidelines
   - in implementation of KDOQI guidelines

2. Conduct research
   - in guideline development
   - in guideline implementation

Dr. Levey is the Center Director, Nephrology; Dr. Uhlig is the Director of Guideline Development and the Co-Director of the Evidence Review Team; and Dr. Stevens is the Director of Guideline Implementation. Additional staff at the Center are Ethan Balk, MD MPH Director of Evidence Based Medicine and Co-Director of the Evidence Review Team and Dr. Upadhyay who has begun his training to develop into the role of a Project Director for the Evidence Review Team.
Service in Guideline Development

The process of KDOQI and KDIGO guideline development is supported by a team of nephrologists and methodologists, which constitutes the Evidence Review Team (ERT).

Role of the ERT:
- Closely collaborate with the experts in the work groups assembled by the NKF;
- Provide methodological guidance in guideline development;
- Provide leadership in conducting the systematic reviews and produce the evidence reports; and
- Ensure methodological rigor and timely completion of critical work process steps.

The ERT aims to assure that the guideline development process is of high quality by ensuring that question formulation, literature synthesis and appraisal follow a structured and explicit approach and that guidelines connect to the evidence reviewed. Progress on individual KDOQI and KDIGO guidelines is described above.

![Organizational Diagram for Tufts Center for Kidney Disease Guideline Development and Implementation](image)

**Figure 2:** Organizational Diagram for Tufts Center for Kidney Disease Guideline Development and Implementation

Service in Guideline Implementation

The Tufts Center provides service to the NKF in guideline implementation through consultation and collaboration with NKF and KDIGO in projects in collaboration with other organizations and through “academic detailing,” at Tufts Medical Center and other partners.
Collaborative Partners of the Tufts Center include:

- Centers for Disease Control and Prevention
- Coventry Health Care
- U.S. Food and Drug Administration
- Laboratory Corporation of America
- National Committee for Quality Assurance
- NIDDK National Kidney Disease Education Program
- World Health Organization

Drs. Stevens and Levey work closely with the NKF leadership to develop and enhance NKF programs, such as Kidney Early Evaluation Program (KEEP) and Kidney Learning System (KLS) activities. The focus of this collaboration is to develop strategies and tools for implementation of KDOQI and KDIGO clinical practice guidelines. Dr. Stevens is leading an effort to revise the ICD-9-CM codes for the new KDIGO AKI guidelines and is chair of the Renal Working Group for the World Health Organization for the revisions of the ICD for the creation of ICD-11.

Research in Guideline Development and Advancement of Guideline Development Methods

The ERT is constantly evaluating and streamlining the procedures for guideline development as well as improving and standardizing the methods. It conducts meta-analyses for selected evidence review topics and promotes adherence to generally accepted standards when matching the evidence with the guideline questions. The ERT currently provides consultation to the NKF, KDOQI, and KDIGO leadership on issues related to methods and processes.

Research in Guideline Implementation

Guideline implementation research projects study the effectiveness of strategies and tools for guideline implementation to ensure the translation of the guidelines into clinical practice. A research group has been constituted at the Tufts Center to lead the implementation efforts. This group also provides advisors for independent research projects undertaken by the Tufts Center fellows. This group has established partnerships with Coventry Healthcare, Kaiser Permanente Northwest, LabCorp and Quest Diagnostics.
Philanthropic Support of the Division

New Philanthropic Initiatives in 2010

The William B. Schwartz Division of Nephrology is pleased to announce a new philanthropic initiative. The Stevens-Inker Family Fund was created in 2010 through the generosity of Lesley Stevens, MD and Ben Inker, in honor of their wedding on January 16, 2011. The Stevens-Inker Family Fund will be under the direction of the Chief of the Division of Nephrology, with an initial goal to provide direct support to kidney patients, whether they are in the Kidney Transplant Program; whether they are receiving dialysis through the independent Dialysis Clinic, Inc. (DCI) or another dialysis provider; or if they are receiving any type of treatment for kidney disease. The Chief of the Division of Nephrology will consult with leaders of kidney-related clinical disciplines, including dialysis, the medical and surgical areas of transplantation, and pediatric nephrology, to identify compelling needs to be supported by the Stevens-Inker Family Fund.

We are extremely honored by the following Founding Gifts to the Stevens-Inker Family Fund: (This listing contains gifts received and recorded by the end of business on February 9, 2011)

Individual Donors

- Dr. Lesley Stevens & Mr. Benjamin L. Inker (Fund founders)
- Mr. and Mrs. Lawrence J. Beaser
- Mr. and Mrs. Ray A. Beaser
- Mr. and Mrs. Murray Blankstein
- Mr. Adam Bookman
- Mr. and Mrs. Barry Borden
- Ms. Rhoda Brown
- Mr. and Mrs. Robert Cohen
- Dr. Josef Coresh and Dr. Michelle J. Hindin
- Mr. and Mrs. Domenic Esposito
- Ms. Elizabeth J. Fitzgerald
- Dr. Scott Gilbert
- Mr. and Mrs. Stephen Goldman
- Mr. and Mrs. Ronnie Goldstein
- Mr. and Mrs. Robert J. Grantham
- Mr. and Mrs. Bernie Grodzinski
- Ms. Mimi Hollenberg
- Mr. and Mrs. Matthew J. Kadnar
- Mr. Ivan Lehon and Ms. Tal Kastner
- Mr. and Mrs. Josef Kastner
- Ms. Ruth L. Kastner
- Mr. and Mrs. Dan Kirshner
- Dr. Andrew S. Levey and Dr. Roberta Falke
- Mr. and Mrs. Herb Marcus
- Ms. Alexandra C. Moller
- Mr. and Mrs. Michael Offner
- Mr. and Mrs. Kirk A. Ott
- Ms. Ronna J. Perlmutter
- Dr. and Mrs. Alan D. Persky
- Mr. and Mrs. M. Laurence Popofsky
- Mr. and Mrs. Morton Prager
- Ms. Rosalind W. Sallinger
- Ms. Nancy Prussky
- Mr. and Mrs. Tony Rebuck
- Ms. Maxine Savitz
- Mr. Roger A. Seltzer
- Ms. Lila Spector
- Ms. Ann M. Spruill
- Mr. Joshua Tepper
- Mr. and Mrs. George Theodosiou
- Ms. Donna Valikoff
- Mr. and Mrs. George Weinberger
- Dr. Daniel Weiner
- Mr. and Mrs. Ken Wener
- Mr. and Mrs. Eric H. Yoffie
- Mr. and Ms. Harvey Zimmerman

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

**Continuing Philanthropic Initiatives**

**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.

2010 Friedman Fund Updates

- In 2010, the Friedman Foundation held its Third Annual Gerald J. Friedman Fellows Symposium on Nutrition, Diabetes and Human Health. Endocrinology fellows from Tufts participated in this virtual conference.
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
2010 Schwartz Fund Updates

- In 2010, we were very appreciative to receive new gifts from the following individuals:
  - Mr. and Mrs. Robert Driscoll
  - Dr. and Mrs. Howard B. Garfinkel
  - Mr. Douglas R. Gooding
  - Mr. and Mrs. James R. Lord

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

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

Previous Visiting Professors:

1st Annual John T. Harrington Grand Rounds
January 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
March 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
March 2009
Eberhard Ritz, MD, Visiting Professor
Department of Internal Medicine Ruperto Carola University of Heidelberg, Germany
The World Kidney Day: The Kidney and Hypertension

2010 Harrington Fund Updates

- In 2010, we were very appreciative to receive the following new gifts:
  - Dr. and Mrs. Howard B. Garfinkel
  - Dr. and Mrs. James A. Strom

- In 2010, Dr. Bertram Kasiske was the Visiting Professor for the 4th Annual John T. Harrington Grand Rounds held March 11-12, 2010. Dr. Kasiske is a Professor of Medicine and head of Transplant Nephrology at the University of Minnesota. He is also the Director of the Renal Division at Hennepin County Medical Center. Nephrologists from several Tufts-associated hospitals (Maine Medical Center, Baystate Medical Center, and St. Elizabeth’s Medical Center) joined Division members at the presentation of the Division’s research training program. At Research Conference, Dr.
Kasiske presented on the *Long-term Effects of Kidney Donation*. On Friday, March 12th, Dr. Kasiske presented at Grand Rounds; his presentation was entitled *Guidelines for the Management of Kidney Transplant Patients*.

- Also in 2010, Jonathan Himmelfarb, MD, Professor of Medicine, from the University of Washington Division of Nephrology in Seattle WA was invited to be the Visiting Professor for the 5th Annual John T. Harrington Grand Rounds. Dr. Himmelfarb is the Joseph W. Eschbach Endowed Chair in Kidney Research and the Director of the Kidney Research Institute.

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

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

The purpose of the *Hortense “Diddy” Seybolt Fund for Staff Enrichment in Nephrology* is to support professional development and training in nephrology with a special focus on staff that care for dialysis patients. Examples of professional development and training include participation in conferences, seminars, coursework and other continuing medical education opportunities that will advance the knowledge, skill, and careers of technicians, nurses, and other medical care providers who care for dialysis patients. To support these enrichment activities, it is expected that the Fund will distribute multiple awards every year in the range of $500—$1,500 each, depending on funding available. The awards will provide important recognition to the hardworking staff that cares for dialysis patients and awardees will be acknowledged as receiving support from the *Hortense “Diddy” Seybolt Fund for Staff Enrichment in Nephrology*. Mrs. Seybolt’s determination, good humor, grace, and dignity inspired both her fellow dialysis patients and the physicians and staff who were privileged to care for her. Even as she confronted a rigorous treatment for an exhausting chronic illness, she was attentive to the experiences and aspirations of the staff who performed her hemodialysis treatments. The Division is profoundly grateful to her family and friends for memorializing Mrs. Seybolt’s concern and sense of community in this fund.

We are grateful for the following Founding Gifts received:

- The Friends and Family of Hortense “Diddy” Seybolt

Hortense “Diddy” Seybolt
2010 *Diddy Seybolt Fund* Updates

- In 2010, proceeds from the *Diddy Seybolt Fund* were used for a variety of educational purposes for dialysis clinic staff. The dialysis patient care technicians attended an educational program in April and to the ESRD Network of New England Annual Meeting in October. It also allowed an additional dialysis nurse to attend the DCI Annual meeting in October, and helped the dialysis clinic dietician and social worker to attend local professional meetings.

**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 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 or mailed to:

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