Kidney Research Centre

Annual Report
2018-2019
About the KRC

The Kidney Research Centre (KRC) was established in 2000 at The Ottawa Hospital Research Institute, University of Ottawa, and is the first centre of its kind in Canada devoted exclusively to the prevention, diagnosis and treatment of kidney disease.

Cover: Microphotography showing uptake of fluorescent exosomes into endothelial cells derived from human umbilical veins. Exosomes derived from umbilical cord blood protect against acute kidney injury by stimulating pro-survival mechanisms to heal injured cells.
## Contents

Message from the Director .......................................................................................................................... 5  
Message du directeur ....................................................................................................................................... 8  
Profile of Dr. Greg Hundemer ....................................................................................................................... 11  
Community Outreach ..................................................................................................................................... 13  
  - KRC Golf Tournament ................................................................................................................................. 13  
  - La Serata Italiana (Italian Night) .................................................................................................................. 14  
  - Alive to Strive .............................................................................................................................................. 14  
  - The Jones Family Foundation—Kidney Research Laboratories ............................................................... 15  
  - KRC Open House ....................................................................................................................................... 15  
KRC Staff / Trainees ...................................................................................................................................... 16  
Publications .................................................................................................................................................... 22  
KRC Grant Funding ....................................................................................................................................... 30  
  - Clinical Research ...................................................................................................................................... 30  
  - Basic Research ......................................................................................................................................... 32  
Investigators—Invited Presentations ............................................................................................................... 34  
Awards and Distinctions ................................................................................................................................. 37  
Visiting Speakers .......................................................................................................................................... 38
The Kidney Research Centre (KRC) Annual Report for 2018–19 highlights our scientific staff, trainees, publications, presentations, and other academic accomplishments, as well as community events in support of people affected by kidney disease. One of the unique features of KRC is that our research is driven by both bench scientists who are uncovering fundamental mechanisms responsible for causing kidney disease, and clinician researchers examining problems that directly affect patient care and quality of life. The bench research component involves scientists within the Chronic Disease Program at the Ottawa Hospital Research Institute (OHRI), while the clinical research is conducted within the Program of Clinical Epidemiology. But these 2 programs do not exist in isolation. Indeed one of our major objectives is to encourage collaboration between bench scientists and clinicians, so that new discoveries can be brought to the patient’s bedside as soon as possible. With increasing numbers of researchers and staff at the KRC in recent years, examples of this type of collaboration have become more evident, a trend that is likely to grow and result in improved patient outcomes.

From July 1, 2018 to June 30, 2019, our researchers published 88 peer-reviewed manuscripts in scientific/medical journals. Discoveries at the laboratory bench included key insights into how filtration in the kidney is affected by two important proteins (called “ubiquitin C-terminal hydrolase L1”, and “NADPH oxidase”), led by Dr. Kennedy’s lab, and demonstration that small vesicles from human cord blood progenitor cells can prevent acute kidney injury by directly targeting damaged cells, work performed in Dr. Burns’ lab. As an example of excellent collaboration between bench and clinician scientists, Dr. Dylan Burger has worked with Dr. Marcel Ruzicka to investigate the implications of their discovery that women on chronic hemodialysis have higher circulating levels of platelet-derived vesicles called “microparticles” compared to men. On the clinical research side, exciting findings were published in high impact medical journals, including more than 20 manuscripts related to kidney transplantation and organ donation from Division Head Dr. Greg Knoll, and more than 15 papers from KRC Jindal Research Chair on the Prevention of Kidney Disease, Dr. Manish Sood, including the demonstration that a commonly used medication to treat high potassium levels (kayexelate) is associated with serious adverse effects in the gastrointestinal tract, published in the prestigious Journal of the American Medical Association (JAMA). Recent recruit to the Division of Nephrology Dr. Greg Hundemer has published on his research interest - the outcomes associated with an increasingly recognized cause of hypertension, primary aldosteronism. The Annual Report also includes references to the many interesting findings published by other clinical researchers and their trainees (Drs. Akbari, Biyani, Brown, Bugeja, Clark, ...
Hiremath, Lavoie, Magner, McCormick, Ruzicka, and Zimmerman), and several of these have been highlighted in our monthly KRC Newsflash (www.ohri.ca/centres/krc/newsflash.asp).

The KRC has been very successful once again in securing provincial and national grant funding. **Dr. Chris Kennedy** received a major 5-year project grant from the Canadian Institutes of Health Research (CIHR) to continue studies on the fundamental mechanisms causing kidney disease associated with hypertension. **Dr. Richard L. Hébert** was awarded a 2-year Biomedical Research Grant from the Kidney Foundation of Canada (KFOC) for his research project The role of prostaglandin EP receptors in hypertension-associated kidney disease. **Dr. Greg Hundemer** received a prestigious KRESCEENT New Investigator award, from the KFOC, CIHR, and Canadian Society of Nephrology. **Drs. Burger and Ruzicka** were awarded a grant from The Ottawa Hospital (TOH) Department of Medicine to study sex differences in platelet microparticles in hemodialysis patients.

In March 2019, **Ms. Chloe Landry** and **Mrs. Thalia Medeiros** (both trainees from Dr. Burger’s laboratory) were awarded the 2019 Agostino Monteduro Italian Night Scholarships, sponsored by the KFOC. The Scholarships support the training of these excellent students and fund their attendance and presentations at national and international meetings. In May, graduate student **Mr. Matthew Spence** successfully defended his M.Sc. thesis at the University of Ottawa on “The mechanisms for kidney targeting of exosomes in acute kidney injury” (supervisor: **Dr. K. Burns**).

The KRC held an Open House event on May 23, 2019 that featured excellent presentations on living kidney donation (**Dr. Ann Bugeja**) and TOH Home Dialysis Program (**Dr. Brendan McCormick**), as well as a moving speech by patient June Jones on the impact of chronic kidney disease on her and her family. The KRC labs were opened up for walk-through demonstrations of current projects by scientists and trainees.

We continue to receive tremendous support from the Ottawa community. On Sept. 17, 2018, the **15th Annual KRC Golf Tournament** at The Meadows course attracted more than 130 golfers, and raised more than $24,000 to support kidney research. Mr. Sean Downey spoke eloquently at the dinner event about his experience as a kidney donor for his father. Organization of the event was led once again by **Mr. Sam Karkache**, his committee of volunteers, and TOH Foundation. We thank Sam and all committee members, our Honorary Chair-hockey legend Brian Kilrea, Dean Roberts from TSN 1200, Michael O’Byrne, and all participants and sponsors.

We are especially grateful for the outstanding support of **Russ and June Jones**, who donated $500,000 on behalf of their family to support research projects at the KRC. At a celebratory event attended by the Jones family and clinical and basic research staff on Jan. 7, 2019, a plaque was unveiled by TOH Foundation to honor this generous donation, with naming of 3 lab facilities at KRC as “The Jones Family Foundation - Kidney Research Laboratories”.
On March 2nd, 2019, the 35th La Serata Italiana/Italian Night gala dinner featured “An Italian Affair” and raised $50,000 for the KRC. We thank Anna Monteduro, Mario Frangione, Mauro Burri, and all members of the Italian Night organizing committee for hosting this great gala, as well as TOH Foundation and the KFOC for their assistance and support.

Close to $2,000 was raised to support the KRC at the 9th annual Alive to Strive Kidney Fitness Project event on April 28, 2019. The event involved runners and walkers from all age groups, and included patients and their family members. Many thanks to Ms. Marie-Eve Chainey, Chair of the event, Dr. Zimmerman, and all committee members for their hard work and dedication to this important cause.

Lastly, we extend our thanks to all private donors, who have made contributions to the KRC in the past year that will go directly to support biomedical and clinical research projects. We also acknowledge the hard work of the trainees, research staff, our lab manager Ms. Gaby Cherton-Horvat, and administrative assistant Ms. Jennifer Brownrigg who have all contributed importantly to another successful year at KRC.

Sincerely,

Kevin D. Burns MD CM, FRCPC
Professor of Medicine, Division of Nephrology, Dept. of Medicine
The Ottawa Hospital
Director, Kidney Research Centre
Chronic Disease Program
Ottawa Hospital Research Institute, University of Ottawa
L e rapport annuel du Centre de recherche sur le rein (CRMR) pour 2018-2019 met en valeur notre personnel scientifique, les stagiaires, des publications, des présentations et d’autres réalisations pédagogiques, ainsi que des évènements communautaires touchant les personnes atteintes de maladies rénales. Une des caractéristiques uniques du CRMR est que nos recherches sont menées à la fois par un groupe de scientifiques qui découvrent les mécanismes fondamentaux responsables des maladies rénales et aussi par des chercheurs cliniciens examinant des problèmes qui affectent directement les soins aux patients et leur qualité de vie. Les chercheurs du programme de recherche sur les maladies chroniques de l’Institut de recherche de l’Hôpital d’Ottawa (IRHO) font partie de la recherche fondamentale, tandis que la recherche clinique est menée dans le cadre du programme d’épidémiologie clinique. Mais ces 2 programmes ne sont pas isolés. En effet, l’un de nos principaux objectifs est d’encourager la collaboration entre les scientifiques des deux groupes, afin que de nouvelles découvertes puissent être bénéfique pour les patients le plus rapidement possible. Avec le nombre croissant de chercheurs et de personnel au CRMR ces dernières années, les exemples de ce type de collaboration sont devenus plus évidents, une tendance susceptible de se développer et d’améliorer les résultats pour les patients.

Du 1er juillet 2018 au 30 juin 2019, nos chercheurs ont publié 88 manuscrits évalués par des pairs dans des revues scientifiques/médicales. Les découvertes dans le laboratoire comprenaient des informations importantes impliquant la filtration dans le rein de deux protéines importantes (appelées « ubiquitine C terminal hydrolase L1 » et « NADPH oxydase »), effectuées par le laboratoire du Dr Kennedy, et la démonstration que les petites vésicules des cellules progénitrices du sang de cordon humain peuvent prévenir les lésions rénales aiguës en ciblant directement les cellules endommagées, travail effectué dans le laboratoire du Dr Burns. Dr Dylan Burger a collaboré avec le Dr Marcel Ruzicka pour étudier les implications de leur découverte selon laquelle les femmes recevant des traitements d’hémodialyse chronique présentent des taux plus élevés de vésicules circulantes dérivées des plaquettes, appelées « microparticules » par rapport aux hommes. Du côté de la recherche clinique, des résultats intéressants ont été publiés dans des revues médicales d’importance, notamment plus de 20 manuscrits impliquant la transplantation rénale et les don d’organes par le directeur de la division, le Dr Greg Knoll, et plus de 15 articles du président de la chaire Jindal de recherche CRMR le Dr Manish Sood sur la prévention de la maladie rénale, le Dr Sood a notamment démontré qu’un médicament couramment utilisé pour traiter les taux élevés de potassium (kayexelate) est associé à des effets indésirables graves sur le tractus gastro-intestinal, publié dans le prestigieux Journal de l’Association Médicale Américaine.
Un nouveau membre de la Division de néphrologie, le Dr Greg Hundemer, a faites une découverte importante en trouvant une cause de plus en plus reconnue d’hypertension, l’aldostéronisme primaire. Le rapport annuel contient également des références aux nombreuses découvertes intéressantes publiées par d’autres chercheurs cliniques et leurs stagiaires (les docteurs Akbari, Biyani, Brown, Bugeja, Clark, Hiremath, Lavoie, Magner, McCormick, Ruzicka et Zimmerman), et plusieurs de ces personnes. A été souligné dans notre bulletin mensuel CRMR Newsflash (www.ohri.ca/centres/krc/newsflash.asp).

Le CRMR a encore une fois très bien réussi à obtenir des subventions provinciales et nationales. Le Dr Chris Kennedy a reçu une subvention de projet majeure d’une durée de cinq ans des Instituts de recherche en santé du Canada (IRSC) afin de poursuivre ses études sur les mécanismes fondamentaux responsables de l’insuffisance rénale associée à l’hypertension. Le Dr Richard L. Hébert a reçu une subvention de recherche biomédicale de deux ans de la Fondation canadienne du rein (FCR) pour son projet de recherche intitulé Le rôle des récepteurs de la prostaglandine EP dans l’insuffisance rénale associée à l’hypertension. Le Dr Greg Hundemer a reçu le prestigieux prix du nouveau chercheur KRESCENT, décerné par le KFOC, les IRSC et la Société canadienne de néphrologie. Drs Burger et Ruzicka ont reçu une subvention du département de médecine de L’Hôpital d’Ottawa pour étudier les différences entre les sexes dans les microparticules plaquettaires chez les patients hémodialysés.

En mars 2019, Mlle Chloé Landry et Mme Thalia Medeiros (toutes deux stagiaires du laboratoire du Dr Burger) ont reçu les bourses d’études Agostino Monteduro de la soirée Italienne 2019, parrainées par la Fondation Canadienne des maladies rénales. Les bourses soutiennent la formation de ces excellents étudiants et leur permet de présenter leurs résultats lors de réunions nationales et internationales. En mai, M. Matthew Spence, étudiant gradué, a défendu avec succès sa M.Sc. thèse de maîtrise à l’Université d’Ottawa sur « Les mécanismes de ciblage rénal des exosomes dans les lésions rénales aiguës » (directeur : le Dr K. Burns).

Le 23 mai 2019, le CRMR a organisé une journée portes ouvertes avec d’excellentes présentations sur le don de rein vivant (Dre Ann Bugeja) et le programme de dialyse à domicile de l’HO (Dr. Brendan McCormick), ainsi que le discours émouvant d’une patiente June Jones sur l’impact d’être atteinte de l’insuffisance rénale chronique sur elle et sa famille. Les laboratoires du CRMR ont permis à une cinquantaine de personnes d’observer des démonstrations et des projets scientifique en cours.

Nous continuons de recevoir un soutien formidable de la part de la population de l’Outaouais. Le 17 septembre 2018, le 15e tournoi de golf annuel du CRMR sur le parcours The Meadows a attiré plus de 130 golfeurs et a permis d’amasser plus de 24 000 $ pour soutenir la recherche sur les maladies rénales. Lors du dîner, M. Sean Downey a parlé avec éloquence de son expérience en tant que donneur de rein pour son père. L’organisation de l’événement a été une nouvelle fois dirigée par M. Sam Karkache, son comité de bénévoles et la Fondation l’HO. Nous remercions Sam et tous les membres du comité, notre président d’honneur – une
légende du hockey moderne Brian Kilrea, Dean Roberts de TSN 1200, Michael O’Byrne de CTV ainsi que tous les participants et commanditaires.

Nous sommes particulièremment reconnaissants pour le soutien exceptionnel de Russ et June Jones, qui ont donné 500 000 dollars pour soutenir des projets de recherche au CRMR. Lors d’une cérémonie à laquelle assistaient la famille Jones et le personnel de recherche clinique et fondamentale le 7 janvier 2019, une plaque a été dévoilée par la Fondation l’HO afin de rendre hommage à ce don généreux, avec la désignation de 3 laboratoires au CRMR étant identifiés « La Fondation de la famille Jones – Laboratoires de recherche sur les maladies rénales ».

Le 2 mars 2019, le dîner de gala de la 35e soirée « La Serata Italiana/Soirée Italienne » a permis de récolter 50 000 $ pour le CRMR. Nous remercions Anna Monteduro, Mario Frangione, Mauro Burri et tous les membres du comité d’organisation de la soirée italienne d’avoir organisé ce grand gala, ainsi que la Fondation l’HO et la Fondation Canadienne des maladies rénales pour leur aide et leur soutien.

Près de 2 000 $ ont été collectés pour soutenir le CRMR lors de la 9e édition de la course Vivres ses défis qui a eu lieu le 28 avril 2019. Cet événement réunissait des coureurs et des marcheurs de tous les groupes d’âge, ainsi que des patients et des membres de leur famille. Nous remercions chaleureusement Mme Marie-Eve Chainey, présidente de l’événement, la Dre Zimmerman, ainsi que tous les membres du comité pour leur travail acharné et leur dévouement à cette cause importante.

Enfin, nous remercions tous les donateurs privés qui ont contribué au cours de l’année qui s’achève de leurs dons au CRMR, ces dons vont directement soutenir des projets de recherche biomédicale et clinique. Nous reconnaissons également le travail acharné des stagiaires, du personnel de recherche, de notre responsable de laboratoire Mme Gaby Cherton-Horvat, et de l’assistante administrative, Mme Jennifer Brownrigg, ils ont tous contribué de manière importante à une autre année fructueuse au CRMR.

Cordialement,

Kevin D. Burns, MD CM, FRCPC
Professeur de médecine, Division de néphrologie
Université d’Ottawa et l’Hôpital d’Ottawa
Directeur, Centre de recherche sur les maladies du rein
Institut de recherche de L’Hôpital d’Ottawa, Université d’Ottawa
KRC Profile — Dr Greg Hundemer

Sky is literally the limit for newest KRC Scientist

Gregory Hundemer MD, MPH
Associate Scientist, Clinical Epidemiology Program
Ottawa Hospital Research Institute
Assistant Professor, Medicine
University of Ottawa
Staff Nephrologist
The Ottawa Hospital

When a new faculty recruit is introduced it is not uncommon to hear the expression “The sky is the limit” in reference to their research potential. For the newest recruit to the Kidney Research Centre that expression may be more true than most. Dr. Gregory Hundemer is a Nephrologist with a research interest in high blood pressure (hypertension). He also happens to be a former Flight Surgeon in in the United States Air Force. We caught up with Dr. Hundemer for a brief interview that touches on his research ambitions, interests, and unique training prior to arriving in Ottawa.

Tell us about your childhood: I was born and raised just outside of Cleveland, Ohio.

Where did you go to school? For my undergraduate studies, I attended Case Western in Cleveland. I then moved to Nashville for medical school at Vanderbilt University. After medical school, I served in the US Air Force for 4 years as a flight surgeon for the U-2 high altitude spy plane squadron (where I had the rare opportunity to fly above 70,000 feet). At that time, I was stationed in Northern California but served multiple combat deployments in support of military operations in Iraq and Afghanistan. After completing 4 years of military service, I returned to academic medicine and moved to Boston for internal medicine residency (Massachusetts General Hospital) and nephrology fellowship (Brigham & Women’s Hospital and Massachusetts General Hospital combined program).

Did you always know that you wanted to be a doctor? No, I always knew I wanted to do something science-related but didn’t settle on becoming a doctor until my junior year of undergrad.

How did you decide to come to Ottawa? The Nephrology Division in Ottawa offered me the balance I was looking for in terms of clinical practice along with protected time for research. Plus, family was a big decider as we were looking to be closer to my wife’s family.
Tell us about your research? Who do you collaborate with in Ottawa? My main research interest is in hypertension, in particular primary aldosteronism which is a common, yet massively under-diagnosed, form of hypertension related to inappropriately high levels of the hormone aldosterone. Through a combination of epidemiologic, physiologic, and interventional studies, I hope to improve both the detection and treatment approaches for primary aldosteronism. In Ottawa, I am collaborating with Drs. Marcel Ruzicka, Swapnil Hiremath, and Manish Sood in addition to researchers from the cardiology and endocrinology divisions.

What are your interests outside of the clinic? I enjoy running, biking, traveling, and Cleveland sports (I am a diehard Browns fan). But the favorite part of my days is spending time with my wife (Marleen) and our 3 kids: Cooper (age 6), Avery (age 2), and Kennedy (age 1).
KRC Outreach

KRC Golf Tournament

A September tradition for over 15 years, the 2018 KRC Golf Tournament was held Monday, September 17 and welcomed more than 130 golfers, raising more than $24,000 to support kidney research. The funds raised supported two projects. The first, is a clinical trial led by Dr. Deb Zimmerman aimed at establishing an effective exercise-based rehabilitation program for dialysis patients. Her study is teaching dialysis patients how to exercise and maintain motivation. The second project is an investment in state-of-the-art innovation, a laboratory incubator chamber system developed by Ottawa based company Incuvers. This technology will accelerate KRC studies in kidney regeneration, drug development and cell replication and experiments.

The KRC is grateful to the golfers, sponsors, The Ottawa Hospital Foundation, the organizing committee led by Mr. Sam Karkache and our host - The Meadows Golf and Country Club. Special thanks to our guest speaker Mr. Sean Downey, our Honorary Chair Mr. Brian Kilrea, Mr. Dean Roberts of TSN1200, Michael O’Byrne, the golfers and our generous main sponsors Urbandale Corporation, CLV Group and TSN1200 Ottawa. Pictured at the left is Mr. Mike McCann from CLV Group, who sadly passed away in 2019 after a brave fight with cancer. Mike was a long-time great supporter of the KRC, and we are grateful for his help over the years. Our sincere condolences go out to his family and friends.
Italian Night

La Serata Italiana (Italian Night) has become one of the must attend gala events in Ottawa. Every year the organizing Committee, volunteers and staff of the Sala San Marco Conference Centre host an evening to remember. The theme of this year’s gala held Saturday March 2nd 2019 was An Italian Affair. The event raised $50,000 for the Kidney Research Centre.

Along with the money raised each year two KRC trainees are awarded the Agostino Monteduro Italian Night Scholarships, on behalf of the Kidney Foundation of Canada. The 2018 awardees, Ms. Chloé Landry and Ms. Thalia Medeiros received a salary stipend and funding to attend a national/international meeting to present their research. Chloé Landry is pursuing a Master’s degree in the Department of Cellular and Molecular Medicine at the University of Ottawa, under the supervision of Dr. Dylan Burger. She is studying “The role of peptidylarginine deiminase 4 and neutrophil extracellular traps in vascular and renal function in hypertensive diabetic mice”. Thalia Medeiros is a visiting PhD student from Brazil (also working in Dr. Burger’s laboratory), and has been at the KRC since August 2018. She is studying “The analysis of podocyte and tubule-derived microparticles in experimental models of chronic kidney disease”.

The KRC is grateful to Anna Monteduro, Mario Frangione and the members of La Serata Italiana organizing committee for their outstanding support of research aimed at improving the lives of people affected by kidney disease.

Alive to Strive

Walkers and runners of all ages enjoyed the 2019 Alive to Strive race held Sunday April 28. This year more than 500 runners and walkers participated. Over the past 8 years, the event has raised more than $36,000 for the KRC. Funds raised support new basic and clinical research projects. Thank you to Marie-Eve Chainey (President of the Board of Directors), the organizing Committee and all the race day volunteers and participants.
The Jones Family Foundation – Kidney Research Laboratories

On Monday, January 7, 2019 KRC Clinical Research/Laboratory Research staff and students celebrated the recent generous donation made by the Jones family to support the KRC. The Ottawa Hospital Foundation and members of the Jones family were on hand to unveil a plaque in honor of this major donation. **Dr. Kevin Burns**, Director of the KRC and **Dr. Deb Zimmerman**, Director of Clinical Research expressed the KRC’s gratitude and explained how the funds will support the work related to prevention, detection and treatment of kidney disease. Three laboratories at KRC have been named The Jones Family Foundation – Kidney Research Laboratories, in recognition of the Jones family contribution.

KRC Open House

Every two years the KRC opens the doors of the Basic Science laboratories to the community. On May 23, 2019 more than 50 guests joined us to learn about the exciting research in progress at the KRC and the impact it is having on kidney disease. Our speakers were **Dr. Ann Bugeja** who presented on the advances in living kidney donation, **Dr. Brendan McCormick** who presented on the progress in home dialysis therapies and Mrs. June Jones who shared her personal story. The laboratory tours consisted of 5 stations: **How oxygen can damage the kidney in diabetes** (**Dr. Chris Kennedy**), **Protecting kidneys from ischemic injury: From cells to exosomes to “MicroRNA”** (**Dr. Kevin Burns**); **Hemodialysis and cardiovascular risk: Are there differences for men and women** (**Dr. Dylan Burger**); **Novel antidiabetic drugs. How do they work?** (**Dr. Richard Hébert**); **Patient partners and the road to a clinical trial** (**Dr. Deb Zimmerman**).
# KRC Staff / Trainees

**Research Personnel**  
**Members of the Division of Nephrology / Kidney Research Centre**

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<th>Name</th>
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<td>Dr. Ayub Akbari</td>
<td>Associate Professor</td>
<td>Senior Clinician Investigator, OHRI</td>
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<td>Dr. Syed Obaid Amin</td>
<td>Clinical Nephrology Associate</td>
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<td>Dr. Robert Bell</td>
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<td>Dr. Mohan Biyani</td>
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<td>Dr. Kevin D. Burns</td>
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<td>Dr. Richard L. Hébert</td>
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<td>Dr. Jolanta Karpinski</td>
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Members of the Division of Nephrology / Kidney Research Centre

Dr. Chris Kennedy  Full Professor
Dept of Cellular & Molecular Medicine
Senior Scientist, OHRI

Dr. Greg Knoll  Professor of Medicine
Division of Nephrology
Senior Scientist, OHRI

Dr. Susan Lavoie  Associate Professor
Division of Nephrology
Clinician Investigator, OHRI

Dr. David Z. Levine  Emeritus Professor
Division of Nephrology
Affiliate Investigator, OHRI

Dr. Peter Magner  Associate Professor
Division of Nephrology
Clinician Investigator, OHRI

Dr. Brendan McCormick  Associate Professor
Division of Nephrology
Clinician Investigator, OHRI

Dr. Soraya Moghadam  Clinical Associate
Division of Nephrology

Dr. Steven Nadler  Associate Professor
Division of Nephrology

Dr. Sushil Ratnaparkhe  Clinical Nephrology Associate

Dr. Marcel Ruzicka  Associate Professor
Division of Nephrology
Clinician Investigator, OHRI

Dr. Manish Sood  Jindal Research Chair for Prevention of Kidney Disease
Assistant Professor
Division of Nephrology
Associate Scientist, OHRI

Dr. Deborah Zimmerman  Associate Professor
Division of Nephrology,
Director of Clinical Research, KRC
Clinician Investigator, OHRI

Clinical Scholars, Trainees and Fellows

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Rima Abou Arkoub</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Mahesh Bennikal</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Tushar Dhakate</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Ankur Gupta</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Januvi Jegatheswaran</td>
<td>Clinical Fellow (RCPSC)</td>
</tr>
<tr>
<td>Dr. Prabhu Kanchi</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Teerath Kumar</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Darius Lazarus</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Trevor Mace-Brickman</td>
<td>Clinical Fellow (RCPSC)</td>
</tr>
</tbody>
</table>
Clinical Scholars, Trainees and Fellows (continued)

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. David Massicotte-Azarniouch</td>
<td>Clinical Fellow (RCPSC)</td>
</tr>
<tr>
<td>Dr. Amr Nagy</td>
<td>Clinical Fellow (RCPSC)</td>
</tr>
<tr>
<td>Dr. Rajeevalochana Parthasarathy</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Krishnam Penmatsa</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Rayees Yousuf Sheikh</td>
<td>Clinical Fellow</td>
</tr>
<tr>
<td>Dr. Sriram Sriperumbuduri</td>
<td>Clinical Fellow</td>
</tr>
</tbody>
</table>

Research Associates

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Alexey Gutsol</td>
<td>Dr. K. Burns</td>
</tr>
<tr>
<td>Dr. Chet Holterman</td>
<td>Dr. C. Kennedy</td>
</tr>
<tr>
<td>Dr. Rania Nasrallah</td>
<td>Dr. R. L. Hébert</td>
</tr>
<tr>
<td>Dr. Jean-François Thibodeau</td>
<td>Dr. C. Kennedy (Research Scientist - Prometic collaboration)</td>
</tr>
<tr>
<td>Dr. Jose Vinas</td>
<td>Dr. K. Burns</td>
</tr>
<tr>
<td>Dr. Fengxia Xiao</td>
<td>Dr. D. Burger / Dr. K. Burns</td>
</tr>
</tbody>
</table>

Post Graduate Medical Trainees

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Name</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Justin Ashley</td>
<td>Dr. M. Sood</td>
<td>Dr. Kevin Hill</td>
<td>Dr. M. Sood</td>
</tr>
<tr>
<td>Dr. Jason Bau</td>
<td>Dr. D. Burger</td>
<td>Dr. Nicole Hryciw</td>
<td>Dr. E. Clark</td>
</tr>
<tr>
<td>Dr. Ryan Chan</td>
<td>Dr. D. Zimmerman</td>
<td>Dr. Danielle Moorman</td>
<td>Dr. M. Sood</td>
</tr>
<tr>
<td>Dr. Sonali de Chickera</td>
<td>Dr. M. Sood</td>
<td>Dr. Arianna Noel</td>
<td>Dr. M. Sood</td>
</tr>
<tr>
<td>Dr. Ben Gershkovitz</td>
<td>Dr. K. Burns</td>
<td>Dr. Carol Wang</td>
<td>Dr. E. Clark</td>
</tr>
<tr>
<td>Dr. Richard Hae</td>
<td>Dr. E. Clark</td>
<td>Dr. Jieqing Xu</td>
<td>Dr. K. Burns</td>
</tr>
</tbody>
</table>

Medical Students

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Name</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrian Bailey</td>
<td>Dr. K. Burns (with Dr. David Allan)</td>
<td>Trisha Kandiah</td>
<td>Dr. D. Zimmerman</td>
</tr>
<tr>
<td>Mohammed Ali Faraz</td>
<td>Dr. S. Hiremath</td>
<td>Jonathan Lau</td>
<td>Dr. A. Akbari</td>
</tr>
<tr>
<td>Maryam Basim Zaree</td>
<td>Dr. S. Hiremath</td>
<td>Gurpreet Mahli</td>
<td>Dr. E. Clark</td>
</tr>
<tr>
<td>Brandon Budhram</td>
<td>Dr. M. Sood</td>
<td>Soroush Rouhani</td>
<td>Dr. S. Hiremath</td>
</tr>
<tr>
<td>Daniel Chan Chun Kong</td>
<td>Dr. S. Hoar</td>
<td>Tharshka Thangarasa</td>
<td>Dr. D. Zimmerman</td>
</tr>
<tr>
<td>Michael Che</td>
<td>Dr. A. Akbari</td>
<td>Sarah Zankar</td>
<td>Dr. K. Burns</td>
</tr>
<tr>
<td>Rana Hassan</td>
<td>Dr. A. Akbari / Dr. S. Hiremath</td>
<td>Khalid Zeid</td>
<td>Dr. E. Clark</td>
</tr>
<tr>
<td>Johnny Huang</td>
<td>Dr. S. Hiremath</td>
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</table>
### Post Graduate Student (Basic Research)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Mayra Trentin-Sonoda</td>
<td>Effect of human vascular progenitor cell-derived exosomes or micro-RNA on renal function in mice with cisplatin induced acute kidney injury.</td>
<td>Dr. K. Burns</td>
</tr>
</tbody>
</table>

### Graduate Students (Basic Research)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Akram Abolbaghai</td>
<td>Microparticles in diabetes and pregnancy.</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Hannah Battaion</td>
<td>Nox5-containing urinary microparticles in renal injury associated with diabetes and hypertension.</td>
<td>Dr. C. Kennedy</td>
</tr>
<tr>
<td>Choé Landry</td>
<td>The role of peptidylarginine deiminase 4 and neutrophil extracellular traps in vascular and renal function in hypertensive diabetic mice.</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Thalia Medeiros</td>
<td>Analysis of podocyte and tubule-derived microparticles in experimental models of chronic kidney disease.</td>
<td>Dr. KD. Burger</td>
</tr>
<tr>
<td>Matthew Spence</td>
<td>Mechanisms for kidney targeting of exosomes in acute kidney injury.</td>
<td>Dr. K. Burns</td>
</tr>
</tbody>
</table>

### Graduate Students (Clinical Research)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. David Massicotte-Azarniouch</td>
<td>The risks associated with blood transfusions in kidney transplant recipients: A retrospective cohort study using health administrative data.</td>
<td>Dr. M. Sood / Dr. G. Knoll</td>
</tr>
<tr>
<td>Silvia Leon Mantilla</td>
<td>Impact of ACEi/ARB discontinuation after an episode of hyperkalemia in patients with CKD. A population-based cohort study.</td>
<td>Dr. M. Sood</td>
</tr>
</tbody>
</table>

### Honours Student (Clinical Research)

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
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</thead>
<tbody>
<tr>
<td>Adesewa Oloko</td>
<td>Dr. S. Hiremath</td>
</tr>
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</table>
### Honours Students (Basic Research)

<table>
<thead>
<tr>
<th>Name</th>
<th>Project Title</th>
<th>Supervisor</th>
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</thead>
<tbody>
<tr>
<td>Sérina Archambault</td>
<td>Characterization of renal macrophages from WT and GPR84-deficient mice.</td>
<td>Dr. C. Kennedy</td>
</tr>
<tr>
<td>Sirene Bellahnid</td>
<td>Effect of peptidylarginine deiminase enzyme inhibition on vascular endothelial cell function in vitro.</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Véronique Cheff</td>
<td>Development and characterization of a novel model of diabetic kidney disease in mice.</td>
<td>Dr. C. Kennedy</td>
</tr>
<tr>
<td>Jude Sanon</td>
<td>Novel approaches to the isolation and characterization of extracellular vesicles.</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Mayur Tailor</td>
<td>Circulating anti-angiogenic factors in women with type 1 diabetes in pregnancy.</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Fréderic Vachon</td>
<td>Effect of GPR84 activation in the production of podocyte microparticles.</td>
<td>Dr. C. Kennedy</td>
</tr>
<tr>
<td>Tessa Whiteley</td>
<td>The effect of dianeal 2.5% peritoneal dialysis solution exposure on human mesothelial cells.</td>
<td>Dr. D. Burger</td>
</tr>
</tbody>
</table>

### Summer Students (Clinical Research)

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brianna Lahey</td>
<td>Dr. S. Hiremath</td>
</tr>
<tr>
<td>Olivia McBride</td>
<td>Dr. S. Hiremath</td>
</tr>
</tbody>
</table>

### Summer Students (Basic Research)

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
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</thead>
<tbody>
<tr>
<td>Sirene Bellanid</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Chloé Landry</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Emma Ruzicka</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Jude Sanon</td>
<td>Dr. D. Burger</td>
</tr>
<tr>
<td>Mayur Tailor</td>
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<tr>
<td>Fréderic Vachon</td>
<td>Dr. C. Kennedy</td>
</tr>
<tr>
<td>Tessa Whiteley</td>
<td>Dr. D. Burger</td>
</tr>
</tbody>
</table>

### Co-Op Student (Basic Research)

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amélie Blais</td>
<td>Dr. C. Kennedy</td>
</tr>
<tr>
<td>Ozgun Varol</td>
<td>Dr. D. Burger</td>
</tr>
</tbody>
</table>
### Technical Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gabriele Cherton-Horvat</td>
<td>Laboratory Manager</td>
<td>Dr. K. Burns</td>
</tr>
<tr>
<td>Lihua Zhu</td>
<td>Laboratory Technician</td>
<td>Dr. C. Kennedy</td>
</tr>
<tr>
<td>Joseph Zimpelmann</td>
<td>Senior Laboratory Technician</td>
<td>Dr. K. Burns / Dr. R. L. Hébert</td>
</tr>
</tbody>
</table>

### Clinical Research Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jennifer Biggs</td>
<td>Clinical Research Nurse Coordinator</td>
<td>Dr. D. Zimmerman</td>
</tr>
<tr>
<td>Valerie Cronin</td>
<td>Clinical Research Coordinator</td>
<td>Dr. D. Zimmerman</td>
</tr>
<tr>
<td>Justine Davis</td>
<td>Clinical Research Administrative Coordinator</td>
<td>Dr. D. Zimmerman</td>
</tr>
<tr>
<td>Julie Leidecker</td>
<td>Clinical Research Coordinator</td>
<td>Dr. D. Zimmerman</td>
</tr>
<tr>
<td>Jessica Wagner</td>
<td>Clinical Research Coordinator</td>
<td>Dr. D. Zimmerman</td>
</tr>
<tr>
<td>Jennifer Wong</td>
<td>Research Assistant (KRC Trial)</td>
<td>Dr. D. Zimmerman</td>
</tr>
</tbody>
</table>

### Research Administrative Staff

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jennifer Brownrigg</td>
<td>Research Administrative Assistant</td>
<td>Dr. K. Burns</td>
</tr>
</tbody>
</table>
Publications


KRC Grant Funding (2018-2019)

Clinical Research

Dr. Ayub Akbari
Risk factors for sub-optimal dialysis initiation.
Kidney Foundation of Canada
2018-2020
$100,000

Dr. Ann Bugeja
Tinzaparin use among INHD patients.
Leo Pharma
2018-2019
$10,000

Dr. Edward Clark
Predicting renal recovery in patients requiring outpatient dialysis after acute kidney injury (RECOVER AKI).
Ontario Renal Network (ORN)
2018-2019
$147,230
Saline versus albumin fluid for extracorporeal removal with slow low efficiency dialysis.
University of Ottawa Department of Medicine
2017-2019
$47,988
(Co-principal-investigator with Dr. Swapnil Hiremath)

Dr. Swapnil Hiremath
Diet or additional supplement to increase potassium intake: An adaptive clinical trial.
Lotte & John Hecht Memorial Foundation
2018-2021
$286,540
Dr. Gregory Hundemer

*Characterizing renal outcomes in overt and subclinical aldosterone excess.*
KRESCENT–New Investigator Award
Kidney Foundation of Canada/CIHR/Canadian Society of Nephrology
2019-2020
$210,000

*Characterizing renal outcomes in overt and subclinical aldosterone excess.*
KRESCENT–Infrastructure Award
Kidney Foundation of Canada/CIHR/Canadian Society of Nephrology
2019
$50,000

Dr. Greg Knoll

*A research program to improve patient outcomes in kidney transplantation.*
Canadian Institutes of Health Research
2015-2022
$3,871,800

Dr. Marcel Ruzicka

*Sex differences in platelet microparticles on dialysis.*
The Ottawa Hospital Department of Medicine Translational Research Grant
2019
$48,000
*(Co-principal investigator with Dr. Dylan Burger)*

Dr. Manish Sood

*The risk: Benefit trade-off of newer anticoagulants for heart disease in patients with CKD.*
The Ottawa Hospital Academic Medical Organization (TOHAMO)
2018-2019
$98,939

Dr. Deb Zimmerman

*A simple exercise program for patients with end stage kidney disease to improve strength and quality of life: A feasibility study.*
Canadian Institutes of Health Research
2018-2020
$252,450
Basic Research

Dr. Dylan Burger

*Mesenchymal stromal cell derived exosomes as a preconditioning therapy for cardiac ischemia-reperfusion injury.*
University of Ottawa Faculty of Medicine Translational Research Grant
2019
$50,000
*(Co-principal investigator with Dr. Manoj Lalu)*

*Sex differences in platelet microparticles on dialysis.*
The Ottawa Hospital Department of Medicine Translational Research Grant
2019
$48,000
*(Co-principal investigator with Dr. Marcel Ruzicka)*

*Microparticles in diabetes.*
Early Researcher Award
Ministry of Research, Innovation and Science, Government of Ontario
2018-2023
$140,000

*Extracellular vesicles in vascular and renal disease.*
Canadian Institutes of Health Research
2017-2022
$284,676

Dr. Kevin Burns

*Endothelial progenitor cell exosomes and MicroRNA transfer as therapy for acute kidney injury.*
Canadian Institutes of Health Research
2018-2022
$742,050

Kidney Foundation of Canada
2017-2019
$100,000
Listening, Learning, Leading: Canadians seeking solutions and innovations to overcome chronic kidney disease (Can-SOLVE CKD).
Canadian Institutes of Health Research
2016 to 2021
$12,500,000 (Precision Medicine in Diabetic Kidney Disease: $2,000,000)

Dr. Chris Kennedy
The role of Nox5 in hypertension-associated renal injury.
Canadian Institute of Health Research
2018-2023
$822,375
Nox5-containing urinary microparticles in renal injury associated with diabetes and hypertension.
Kidney Foundation of Canada
2018-2020
$100,000

Dr. Richard Hébert
Kidney Foundation of Canada
2016-2018
$100,000

Drs. Richard Hébert, Chris Kennedy and Jean-François Thibodeau
GPR40 and GPR84 receptors as novel targets in acute and chronic kidney disease.
ProMetic Life Sciences Inc.
2016-2020
$500,000
Investigators—Invited Presentations

Dr. Ann Bugeja
What happens after you donate a kidney?
Renal Division Rounds, University Health Network, University of Toronto
January 2019
Toronto, ON.

Dr. Pierre Antoine Brown
Autosomal dominant polycystic kidney disease (ADPKD) – improving quality of care through evidence based management.
Medicine Grand Rounds, Department of Medicine, Western University
October 2018
London, ON.

ADPKD: Management practicalities.
Nephrology Grand Rounds, Division of Nephrology, Queen’s University
October 2018
Kingston, ON.

Dr. Dylan Burger
Microparticles and glycaemic control during type 1 diabetes in pregnancy.
The 10th International Symposium on Diabetes, Hypertension, Metabolic Syndrome, and Pregnancy
May 2019
Florence, Italy.

Cell-free cell therapeutics.
Solutions for Cardio-pulmonary Organ Repair and Regeneration (SCORR) - Scientific Research Day
March 2019
Ottawa, ON.

An overview of the academic recruitment process.
Queen’s University
November 2018
Kingston, ON.

Extracellular vesicles in diabetic nephropathy.
American Society of Nephrology Kidney Week 2018
October 2018
San Diego, USA.
Circulating microparticles: Liquid biopsy for vascular profiling.
International Society of Hypertension Scientific Meeting.
September 2018
Beijing China.

Dr. Swapnil Hiremath
Sustained low efficiency dialysis (SLED) Fundamentals.
Acute Therapies Institute Summit
May 2019
Montreal, QC.

Connecting through technology: Harnessing the power of social media.
Canadian Association of Nephrology Administrators Summit
May 2019
Montreal, QC.

Pragmatic and adaptive clinical trials.
KidneyCon
April 2019
Little Rock, Arkansas, USA.

Dr. Chris Kennedy
The role of Nox5 and oxidative stress in the kidney.
Université de Montréal
January 2019
Montreal, QC.

Dr. Greg Knoll
BK virus in transplantation: What now?
University Health Network Transplant Infectious Diseases Symposium
August 2018
Toronto, ON.

Dr. Manish Sood
Emerging and chronic management of hyperkalemia
European Renal Association-European Dialysis and Transplant Association (ERA-EDTA)
June 2019
Budapest, Hungary.

End-stage kidney disease (ESKD): Putting the patient first.
American Society of Nephrology (ASN) Highlights
January 2019
Berlin, Germany.
Kidney Disease: Improving Global Outcomes (KDIGO) - Potassium Management Conference
October 2018
Miami, USA.

Influence of kidney function estimating equations on anticoagulation selection and dosing
The American Society of Nephrology, Clinical nephro-pharmacology across the spectrum of kidney
diseases pre-course
Oct 2018
San Diego, USA.
## Awards and Distinctions

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Year</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Ann Bugeja</td>
<td>2018</td>
<td>Honorary President of School of Medicine, University of Ottawa</td>
</tr>
</tbody>
</table>
                   |      | Elected to the International Society of Hypertension Scientific Committee.  
                   |      | Member: Kidney Foundation of Canada Biomedical Research Grant Review Panel  
                   |      | Member: CIHR Program Grants Pharmacology and Toxicology Review Panel  
                   |      | Department of Medicine PhD Scientist Award                            |
| Dr. Kevin Burns     | 2018 | Scientific Officer, HDK Peer Review Committee, CIHR                  |
|                     | 2018-19 | Member, Health Research Fellowships Peer Review Committee, CIHR       |
| Dr. Greg Hundemer   | 2019 | Awarded the Krescent New Investigator Award.                         |
| Dr. Chris Kennedy   | 2018 | Director of Awards and Prizes for Excellence in Education and Research for the Faculty of Medicine, University of Ottawa |
| Ms. Chloé Landry    | 2019 | 2019 Agostino Monteduro Italian Night Scholarship                     |
| Mr. Matthew Spence  | 2019 | 2019 Agostino Monteduro Italian Night Scholarship                     |
## Visiting Speakers

<table>
<thead>
<tr>
<th>Date</th>
<th>Scholar</th>
<th>Title of Presentation</th>
<th>Seminar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 20, 2018</td>
<td><strong>Dr. Pietro Ravani</strong> MD, PhD &lt;br&gt;Department of Medicine &lt;br&gt;Division of Nephrology &lt;br&gt;University of Calgary &lt;br&gt;Calgary, AB</td>
<td><em>Promoting Shared Decision-making in HD Access Practice</em></td>
<td>Nephrology Grand Rounds</td>
</tr>
<tr>
<td>Nov. 15, 2018</td>
<td><strong>Dr. Samuel Silver</strong> MD, MSc, FRCPC &lt;br&gt;Assistant Professor, Queen’s University &lt;br&gt;Dept of Medicine, Nephrology &lt;br&gt;Kingston General Hospital &lt;br&gt;Kingston, ON</td>
<td><em>Care of the AKI Survivor</em></td>
<td>Nephrology Grand Rounds</td>
</tr>
<tr>
<td>Dec. 6, 2018</td>
<td><strong>Dr. Abhijat Kitchlu</strong> MD, FRCPC &lt;br&gt;Department of Medicine &lt;br&gt;University of Toronto &lt;br&gt;Toronto General Hospital &lt;br&gt;Toronto, ON</td>
<td><em>Onco-nephrology: Overview, Cases and Research in Progress</em></td>
<td>Nephrology Grand Rounds</td>
</tr>
<tr>
<td>Dec. 13, 2018</td>
<td><strong>Dr. Michelle Wong</strong> MD, MSc, FRCPC, &lt;br&gt;Department of Medicine &lt;br&gt;UBC &lt;br&gt;Infinity Medical Specialists Clinic &lt;br&gt;Nanaimo Regional General Hospital &lt;br&gt;Vancouver, BC</td>
<td><em>International perspectives on volume management in end-stage kidney disease</em></td>
<td>Nephrology Grand Rounds</td>
</tr>
<tr>
<td>Apr. 25, 2018</td>
<td><strong>Dr. Julie Ho</strong> MD, FRCPC &lt;br&gt;Director, Quality Initiatives &amp; Transplant Nephrologist &lt;br&gt;Health Sciences Centre Winnipeg &lt;br&gt;Winnipeg, MB</td>
<td><em>Precision Medicine in Kidney Transplantation.</em></td>
<td>Nephrology Grand Rounds</td>
</tr>
<tr>
<td>Apr. 11, 2019</td>
<td><strong>Dr. Uta Erdbrügger</strong> MD &lt;br&gt;Associate Professor of Medicine, University of Virginia &lt;br&gt;Division of Nephrology, University of Virginia Health System &lt;br&gt;Charlottesville, Virginia, USA</td>
<td><em>Extracellular vesicles in hypertension: Phenotype and function.</em></td>
<td>KRC Journal Club</td>
</tr>
<tr>
<td>May 23, 2019</td>
<td><strong>Dr. Amber Molnar</strong> MD, MSc, FRCPC &lt;br&gt;Assistant Professor, McMaster University &lt;br&gt;St. Joseph’s Healthcare &lt;br&gt;Hamilton, ON</td>
<td><em>Suboptimal dialysis initiation: Can we do better?</em></td>
<td>Nephrology Grand Rounds</td>
</tr>
</tbody>
</table>