



Kidney Research Centre
Centre de recherche sur
les maladies du rein

KRC Newsflash

Research advances, awards and upcoming events in the kidney research community

Research Advances

April 2017

Early identification of kidney disease

Dr. Dylan Burger and his team have made an exciting discovery that could lead to earlier identification of kidney disease. In collaboration with colleagues in Toronto, Dr. Burger identified the presence of tiny cell fragments called “microparticles” in urine specimens of people with type 1 diabetes, before the development of typical signs of kidney disease.

For a link to the complete manuscript see:

<http://www.ohri.ca/newsroom/newsstory.asp?ID=883>



Risk of gout increases with lower kidney function

In a study that examined 282,925 adults age 66 or older in Ontario, **KRC Jindal Research Chair Dr. Manish Sood** and colleagues found that the risk of developing gout increased by 5-fold in people with lower kidney function. Interestingly the risk decreased when people started dialysis. The research suggests that gout may be associated with kidney disease in some patients, and may require specific preventive measures.

<http://cjasn.asnjournals.org/content/early/2017/02/01/CJN.06790616>



Determining the causes of high blood phosphate levels in patients on peritoneal dialysis

Dr. Deb Zimmerman led a study in patients treated with peritoneal dialysis demonstrating that younger age and diabetes mellitus (DM) are risk factors for developing a high blood phosphate level, which can lead to itching and bone disease. These findings warrant further investigation to determine the mechanism(s) that lead to this problem for younger patients and those with DM so that their care can be improved.

<http://www.mdpi.com/2072-6643/9/2/152>



Scoring system developed to determine risk of kidney failure after transplant

Acute kidney injury (AKI) is defined by a rapid loss of kidney function. Patients with a kidney transplant who develop AKI have an increased risk of transplant failure. **Dr. Greg Knoll** and colleagues developed a scoring system that could help clinicians determine which kidney transplant patients have the highest risk of transplant failure following an episode of AKI.

<http://journals.sagepub.com/doi/pdf/10.1177/2054358116688228>



Save the Date KRC Open House

Join us on Tuesday June 27, 2017 from 5 to 7 p.m. for the 3rd KRC Open House. Hands-on learning, meet the scientists and staff, and much more.

Email jebrownrigg@ohri.ca or visit www.krc-events.com for more information.

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The Ottawa Hospital Kidney Research Centre

2518-451 Smyth Road
Ottawa ON K1H 8M5

Kidney Fact

Each day an average of 15 people in Canada are told that their kidneys have failed; that's nearly 5,500 people each year.

~Kidney Foundation of Canada

The KRC Newsflash is published by scientists and staff at the KRC. For more information, please contact the KRC Administrative Assistant, Jennifer Brownrigg.

Email: jebrownrigg@ohri.ca
Tel. 613-562-5800 x.8240

The dedicated laboratory scientists and clinician investigators at the Ottawa Hospital Research Institute's Kidney Research Centre (KRC) work together to improve the lives of people affected by kidney disease.



uOttawa

Research Advances *(continued)*

New study compares the accuracy of automated vs. ambulatory blood pressure monitoring devices

More physicians are using automated blood pressure monitoring devices in their clinics for the diagnosis and management of high blood pressure (BP). Until now, data comparing the accuracy of automated devices with 24-hour ambulatory BP monitors (the current reference standard) have been limited. **Dr. Marcel Ruzicka**



and colleagues conducted a systematic review comparing automated BP monitoring devices (BpTRU) to Ambulatory Blood Pressure Monitoring (ABPM). The study found that although BpTRU devices performed well for BP measurements, there was some variability in readings and ABPM devices should continue to be used as the gold standard for the diagnosis and management of hypertension.

<http://www.sciencedirect.com/science/article/pii/S0828282X1730051X>

Distinctions and Awards

Dr. Kevin Burns

Awarded a Biomedical Research grant from The Kidney Foundation of Canada: Exosomal transfer of MicroRNA-486-5p in acute kidney injury repair. Amount: \$50,000/yr for 2 years. The grant ranked #1 out of 66 applications.

Dr. Dylan Burger

Was appointed to the International Society of Hypertension's Regional Advisory Group for Western Europe and North America (January 2017).

Dr. Manish Sood (Jindal Research Chair)

Was appointed **Expert Advisor** to the Canadian Institute for Health Information. High Risk and High Cost: Focus on Opportunities to Reduce Hospitalizations of Dialysis Patients in Canada.

Undergraduate students Jamie Ghossein (supervisor: Dr. Richard L. Hébert) and Rameez Imtiaz (supervisor: Dr. Deb Zimmerman)

Were the recipients of the 2017 La Serata Italiana/Italian Night Scholarships, supported by the Kidney Foundation of Canada. The funds received will be used to help Jamie and Rameez attend and present at a national or international scientific conference.

KRC Outreach

Alive to Strive

Sunday April 30, 2017

Up to 1200 participants are expected to participate in the annual 1km, 5km and 10km walk/run, 5km wheelchair race, and 5km Team Challenge to support those living with chronic kidney disease.

<http://alivetostrive.ca>

La Serata Italiana/Italian Night

The 33rd Annual Serata Italiana/Italian Night in support of The Kidney Foundation of Canada was held on March 4, 2017.

The event was a huge success raising more than \$40,000 for the Kidney Research Centre. We are very grateful to the volunteers, sponsors and guests who make this event a success year after year.

<http://kidney.ca/italiannightottawa>

Kidney Research Centre Golf Tournament

Our annual KRC Golf Tournament will be held on **Monday September 18th** at The Meadows Golf & Country Club. Visit our website to register and learn more about sponsorship opportunities.

<http://www.krc-events.com/>

Blue and Green Soirée

The 2017 Blue and Green Soirée held on March 23, 2017 celebrated the salt-free talents of the culinary students of Algonquin College in support of people with kidney disease and The Kidney Foundation of Canada, Eastern Ontario Chapter.

<http://blueandgreensoiree.ca/>