

Annual Report
Division of Nephrology
Department of Medicine -Jewish General Hospital
January 1, 2017 -December 31, 2017

SUMMARY

1. Research & publications

The Division has continued to expand its research activities with three ongoing local investigator-conceived and implemented studies. This is in addition to the division participating in several multi-center clinical trials as well as the fundamental research taking place in Dr. Lipman's laboratory. Details are presented below in Section II.

2. Teaching and learning

The Division of Nephrology at the JGH continues to serve as a training site for the McGill Renal Fellowship program. Fellows rotate through our peritoneal dialysis program, hemodialysis unit, and the consulting service. The feedback from the fellows on the JGH experience has been uniformly positive. In addition, McGill internal medicine residents and medical students do rotations on the nephrology consult service. Typically we have 2-4 individuals at any given time on the service.

Three of our nephrologists also act as attending staff on the medical CTUs. In an average year we provide 8 weeks of CTU service.

We also give many lectures throughout the year including Grand Medical Rounds, Core teaching for internal medicine, and core lectures for nephrology fellows. We also participate in teaching at the undergraduate level both through lecture series and through small group teaching at the medical school.

Teaching activities (outside of CTU & Nephrology service)

Core Medicine lecture series:

Dr. D. Bercovitch
Dr. M. Davidman
Dr. M. Lipman
Dr. G. Frisch
Dr. S. Nessim

University teaching:

Dr. G. Frisch & Dr. S. Nessim:
Medicine I Physiology: Small group tutorials - Renal section: 18 hours/year each
Back to Basics Acid-Base - 6 hours/year each

Dr. M. Lipman, Dr. Frisch, & Dr. Nessim:
McGill Renal fellow seminar series, 1-2 hours/year each

Dr. M. Davidman:
McGill Anesthesia resident seminar series - Fluids and electrolytes, acid-base and renal disease - 2 hours/year

Undergraduate medical student lectures:

Dr. D. Bercovitch, Hypertension, 2 hours
Dr. M. Davidman, Renal failure, 6 hours
Dr. M. Lipman, Electrolytes, 11 hours
Dr. G. Frisch, Electrolytes, 11 hours
Dr. S. Nessim, Hypertension, 6 hours

3. Involvement in the community

Drs. Lipman, Frisch, and Nessim give several CME rounds throughout the course of the year included at the McGill Refresher Course as well as JGH family medicine rounds amongst others.

4. Partnerships

Dr. Lipman is actively engaged in research partnerships with Drs. Ernesto Schiffrin and Andrew Karaplis at the Lady Davis Institute for Research, and with Drs. Marcelo Cantarovich and Steve Paraskevas at the MUHC. Dr. Nessim has research collaborations with Dr. Joanne Bergman, among others, at the University of Toronto.

5. Milestones:

Three hemodialysis stations were approved by the Ministry in the Sandra and Steven Mintz Nephrology Centre..

6. New hires, promotions, and retirements:

Dr. Ramsey Sabbagh, formerly from Centre Hospitalier Régional de Lanaudière, joined our group as a full-time physician in the Fall of 2017. Dr. Sabbagh earned his medical degree in 2002 at McGill University, where he subsequently completed post-graduate training in Internal Medicine and Nephrology. He earned his medical degree in 2002 at McGill University, where he subsequently completed post-graduate training in Internal Medicine and Nephrology. He pursued additional training in Bone and Mineral Disorders and Nephrolithiasis.

Dr. Sabbagh will have clinical duties at the JGH, where he will be involved in teaching students and supervising medical residents. He will continue to advance his understanding in the field of nephrolithiasis.

Dr. David, Bercovitch a pioneer in the field of Nephrology here at JGH retired December 2017.

7. Honours, awards, and prizes:

Dr. Gershon Frisch was presented with the Transition to Clinical Practice (TCP) Award for Excellence in Teaching during an event held at the McGill Faculty of Medicine in January 2017.

8. Fundraising

The Division of Nephrology was the beneficiary of the 25th Annual Golf Tournament of the JGH held at Elm Ridge in June 2017.

Dr. Frisch organizes a separate annual golf tournament whose proceeds are directed every second year to the Nephrology Division at the JGH.

Drs. Lipman and Frisch both made appearances at various fundraising activities for the Division of Nephrology throughout the year.

SECTION I - DIVISION STATUS UPDATE

1. Mission and objectives of the Division

The Division of Nephrology continues to provide excellence in patient care and teaching. In addition, although the division is modest in terms of the number of members, there is significant activity in fundamental, translational, and clinical research domains. Our consult service is extremely active and follows between 20 and 30 admitted patients daily.

The new hemodialysis unit is operating since September 2016 and includes 37 stations serving over 230 patients.

Our peritoneal dialysis program has continued to be among the busiest in Montreal. We currently have close to 50 patients in this program. Of our total dialysis population 18% are on peritoneal dialysis as their mode of therapy. This figure is substantially higher than the provincial average of 12%.

The Kidney Treatment Centre (pre-dialysis clinic) which is located adjacent to the satellite dialysis unit in Pavilion H is in its fifth year of operation. The clinic provides the necessary educational, dietary, and psychological support to patients with progressive kidney failure and to their families. These programs have been shown to slow the decline of renal function in participants. In addition, the team in the pre-dialysis clinic helps patients make the often difficult transition to dialysis therapy. This clinic now handles over 250 patients with Stage III and Stage IV CKD.

We continue to aggressively promote renal transplantation to our patients as the preferred option for the treatment of end-stage renal disease. We emphasize the value of pre-emptive transplantation in order that the patient may avoid dialysis and we encourage donations from both living-related and living-unrelated donors.

2. List of academic staff

Full-time JGH based:

Dr. Michael Davidman	Associate Professor of Medicine	GFT-H
Dr. Gershon Frisch	Assistant Professor of Medicine	GFT-H
Dr. Mark Lipman	Associate Professor of Medicine	GFT-H
Dr. Sharon Nessim	Assistant Professor of Medicine	GFT-H
Dr. Ramsey, Sabbagh	Assistant Professor of Medicine	GFT-H

Associate staff:

Dr. Johanna Eid
Dr. Paul Bourgoin
Dr. Natalie Ng Cheung

SECTION II- GRANTS, PUBLICATIONS, AND SERVICE OUTSIDE MCGILL

1. Grants

Peer reviewed: none

Industry sponsored:

Dr. Lipman in collaboration with Dr. Ernesto Schiffrin

Gene expression profile in small resistance arteries of patients with hypertension with or without nephroangiosclerosis and its relations to small and large artery function and remodeling Sponsor: Servier Institute.

Investigator initiated:

Dr. Lipman

Effect of vitamin D3 supplementation on arterial and bone remodelling in chronic kidney disease patients

The pharmacodynamic and pharmacokinetic profiles of Apixiban in hemodialysis patients

2. Research Trainees:

Dr. Thomas Mavrakanas, Nephrology Fellow, McGill University

Dr. Tofol Al-Nashmi, Vascular Fellow, McGill University

3. Publications:

Mavrakanas TA, Lipman ML, **ACEIs Vs. ARBs for the Treatment of Hypertension in Adults with Type 2 Diabetes: Why We Favour Arb's.** Canadian Journal of Diabetes, Epublised, 2017, Received 20 August 2017, Revised 14 November 2017, Accepted 27

November 2017, Available online 22 December 2017

Thomas Z, Novak M, Platas SGT, Gautier M, Holgin AP, Fox R, Segal M, Looper KJ, Lipman M, Selchen S, Mucsi I, Herrmann N, Rej S. **Brief Mindfulness Meditation for Depression and Anxiety Symptoms in Patients Undergoing Hemodialysis: A Pilot Feasibility** Clin J Am Soc Nephrol. 2017 Dec 7;12(12):2008-2015. doi: 10.2215/CJN.03900417. Epub 2017 Oct 12.

Mavrakanas TA, Samer CF, Nessim SJ, Frisch G4 Lipman ML, **Apixaban Pharmacokinetics at Steady State in Hemodialysis Patients.** J Am Soc Nephrol. 2017 Jul;28(7):2241-2248. doi: 10.1681/ASN.2016090980. Epub 2017 Mar 16.

4. Service outside McGill:

We are participating in the Dialysis Outcomes and Practice Patterns Study Program (DOPPS) with Dr. Nessim and our point person. This is a multi-national effort to monitor and record dialysis practices around the world. We provide all relevant statistics from our program which are incorporated into the overall study. Here too, we can compare how our dialysis program performs with respect to those in other regions of the world.

We participate in the Canadian Organ Replacement Register (CORR). This effort is sponsored by the Canadian Institute for Health Information and is designed to monitor trends and practices in end-stage renal disease populations. It includes both hemodialysis and transplantation practices. We provide our annual statistics which are then included with other centers across the country. This allows us to compare ourselves to other programs with respect to many clinically relevant aspects of patient management.

SECTION III-CONFIDENTIAL INFORMATION

1. Consulting activities: None

Respectfully submitted,



Mark L. Lipman, M.D.
Chief, Division of Nephrology, JGH