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 6 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. R. Sabbagh
Dr. D. Blum
Dr. M. Lipman
Dr. G. Frisch
Dr. S. Nessim

University teaching:

Dr. S. Nessim:
Classroom lecture on divalent cations (1 hour)
Renal physiology small groups (4 hour)
TCP lecture on acid-base physiology (1 hrs)
Lecture for GIM fellows on “CKD management” (1 hrs)
Lecture for renal fellows on “Mechanical and infectious complications of PD” (2hrs)

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

**Dr. R. Sabbagh:**
Nephrology Academic Half Day: “Anemia of CKD”, “Nephrolithiasis”

**Undergraduate medical student lectures:**
- Dr. R. Sabbagh, Nephrolithiasis, 2 hours
- Dr. D. Blum, Renal failure, 2 hours
- Dr. M. Lipman, Electrolytes, 8 hours
- Dr. G. Frisch, Electrolytes, 11 hours
- Dr. S. Nessim, Hypertension, 6 hours

3. **Involvement in the community**

Drs. Lipman, Frisch, Sabbagh 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. **New hires, promotions, and retirements**

Dr. Daniel Blum was successfully recruited to the division. He has clinical duties at the JGH and involved in teaching students and supervising medical residents and nephrology fellows.

Dr. Michael Davidman a pioneer in the field of Nephrology here at JGH was retired in July 2019.

**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.

Acquired funding from the Ministry of Health for 5 additional hemodialysis stations which will be installed in the coming months.

Our peritoneal dialysis program continues 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.

We continue to develop the Diagnostic and Therapeutic Clinic conceived and designed to provide timely outpatient services to ambulatory patients who otherwise would be sent to the Emergency Department to expedite their care. This clinic is now open 3 days per week and the goal is to evolve towards a 5 days per week clinic.

2. **List of academic staff**

**Full-time JGH based:**
- Dr. Daniel Blum, 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. Laura Pilozzi-Edmonds, MD
- Dr. Natalie Ng Cheung
SECTION II- GRANTS, PUBLICATIONS, AND SERVICE OUTSIDE McGill

1. Grants

Dr. Lipman

Preventing polycystic kidney disease.
Kidney Foundation of Canada
Co-PI with Dr. Andrew Karaplis 2019-2021 $100,000.

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

Dr. Nessim


Dr. Blum

Co-Investigator on CIHR-funded trial “Pragmatic randomized trial of high or standard phosphate targets in end-stage kidney disease” – PHOSPHATE: $1,526,175, 2019-2024. This is a multinational multicenter RCT in HD recipients and I will to be the local qualified investigator at the JGH.

Local qualified investigator at the JGH for the CIHR-funded trial Strategies for the management of Atrial Fibrillation in patients receiving Hemodialysis (SAFE-HD). This is a Canadian multicenter feasibility RCT. I have signed the trials agreement with the Sponsor.

2. Publications

Lipman, Mark


Nessim, Sharon


Blum, Daniel

Elena Nazvitch, Samuel Silver, Ron Wald. Quality Improvement Program Improves Time in Therapeutic Range for Hemodialysis Recipients Taking Warfarin. Kidney International Reports, article in press. Published online 06 November 2029.


3. 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