

Annual Report
Division of Internal Medicine
Department of Medicine - Jewish General Hospital
January 1 - December 31, 2016

SUMMARY

Introduction

The Internal Medicine Division continues to provide most of the hospital's functions caring for more than 150 in-patients on a daily basis outside the Clinical Teaching Units. In spite of the many obligations, our Division is one of the most accomplished in research with four of our members devoting more than 50% of their time in highly productive research activities and teaching with three members having substantial roles in medical education. Dr. **Beth Cummings** was appointed Associate Dean of Undergraduate Medical Education, Faculty of Medicine and **Vicky Tagalakis** was nominated Director, Division of General Internal Medicine, McGill University. Dr. **Ruxandra Bunea** is Director of the Postgraduate Medical Education at the Jewish General Hospital.

Clinical Activities:

Ambulatory Internal Medicine Clinics:

-4 clinics/week: 4 hours/week each (Drs. Becker, Hoffer); 12 hours/week (Dr. Trudeau); 10 hours/week (Dr. Schiffrin); 15 hours/weeks (Residents)

Emergency Room/Medical Short Stay Unit:

7 day/week 52 weeks/year (Drs. R. Becker, M. Koolian, M. Elizov, B. Cummings, J. Raffoul, L. Trudeau, V. Tagalakis, B. Schwartz); 6 Residents and 4 students/week

Emergency Room/Medical Short Stay Unit/Consults:

8 weeks/yr each (Drs. R. Becker, M. Elizov, M. Koolian, J. Raffoul, V. Tagalakis, L. Trudeau, B. Schwartz); 2 weeks/yr each (Drs. B. Cummings, S. Kahn)

Nutritional Support Team Consultation:

16-20 weeks/year: Dr. J. Hoffer

Cardiovascular Prevention Center:

2 clinics/week: Drs. E. Schiffrin, L. Trudeau

Resident's Hypertension Clinic:

2 clinics/week: Drs. R. Becker, R. Bunea, M. Elizov, J. Raffoul, V. Tagalakis, J. Hoffer, L. Trudeau, B. Cummings, B. Schwartz, J. Lipes

Thrombosis Clinic:

2 day clinic per week, Drs. S. Kahn, V. Tagalakis

Pre-Operative Clinic:

1 ½ days per week: Drs. B. Cummings

1. Research and Publications:

The amount of secured grants for the Internal Medicine Division for the period 2015-2016 is \$2,055,505. Total research grants and awards are: Dr. John Hoffer, \$95,000 for his research in Vitamin C & D treatment, Dr. Susan Kahn, \$776,304 for her research in Thrombosis, Dr. Vicky Tagalakis, \$31,029 for her research in Epidemiology & Venous Thrombosis and Dr. Schiffrin, \$1,153,171 for grants and Canada Research Chair in Vascular and Hypertension.

In addition to our divisional members presenting world-wide they have also been given recognition for their articles published in many well-known medical journals. Below are listed some of the more notable publications of our Division:

--Briet M, Barhoumi T, Mian MOR, Coffman TM, Paradis P, Schiffrin EL. Aldosterone-induced vascular remodeling and endothelial dysfunction requires functional angiotensin II type 1a receptors. *Hypertension*. 2016;67: 897-905. DOI: 10.1161/HYPERTENSIONAHA.115.07074.

--Schiffrin EL, Calhoun DA, Flack JM. Editorial. Do we need a new definition of hypertension after SPRINT? *Amer J Hypert*. 2016;29:1127-1129. doi: 10.1093/ajh/hpw068.

--Mian MOR, Barhoumi T, Briet M, Paradis P, Schiffrin EL. Deficiency of T regulatory cells exaggerates angiotensin II-induced microvascular injury by enhancing immune responses. *J Hypertens* 2016, 34:97-108. doi: 10.1097/HJH.0000000000000761.

--Righini M, Galanaud J-P, Guennevez H, Brisot D, Diard A, Faisse P, Barrellier M-T, Hamel-Desnos C, Jurus C, Pichot O, Martin M, Mazzolai L, Choquet C, Accassat S, Robert-Ebadi H, Carrier M, Le Gal G, Mermillod B, Laroche J-P, Bounameaux H, Perrier A, **Kahn SR**, Quere I. Anticoagulant therapy for symptomatic calf deep vein thrombosis (CACTUS): a randomized, double-blind, placebo-controlled trial. *Lancet Haematol*. 2016 Dec;3(12):e556-e562

--Rodger MA, Scarvelis D, **Kahn SR**, Wells PS, Anderson DA, Chagnon I, Le Gal G, Gandara E, Solymoss S, Sabri E, and Kovacs MJ. Long-term risk of recurrent venous thromboembolism after discontinuing anticoagulants for a first unprovoked venous thromboembolism: a multinational prospective cohort study. *Thromb Res* 2016 Jul;143:152-158

--Sabapathy CA, Djouonang TN, **Kahn SR**, Platt RW, Tagalakakis V. Incidence trends and mortality from childhood venous thromboembolism: a population-based cohort study. *J Pediatr* 2016 May;172:175-180.e1

--**Tagalakakis V**, Eberg M, Kahn SR, Azoulay L. Use of statins and reduced risk of recurrence of VTE in an older population: a population-based cohort study. *Thrombosis and Haemostasis* 2016; 115(6):1220-1228

2. Teaching and learning (undergraduate and graduate)

Internists participate in teaching medical students, residents and fellows on Clinical Teaching Units, Internal Medicine, Thrombosis and Perioperative clinics as well on consult services including in the Emergency Room. They participate in journal clubs and the McGill Simulation Center.

Teaching Activities:

Clinical Teaching Unit: 4 weeks/year each Drs. R. Becker, M. Elizov, J. Raffoul, L. Trudeau, V. Tagalakakis, B. Schwartz, J. Lipes and M. Koolian (32 weeks/year); 2 weeks/year each Drs. B. Cummings and S. Kahn (4 weeks/year) for a total of 36 weeks/year 3 weeks/year each 52 Residents (156 weeks/year); 2 weeks/year each 26 students (52 weeks/year)
Ambulatory Internal Medicine 15 hours/week Residents Clinic

Consult Service: 7 day/week: 52 weeks (Raffoul 14 weeks; Trudeau 12 weeks; Tagalakis 10 weeks; Koolian 8 weeks; Elizov 6 weeks and Schwartz 2 weeks) 52 weeks each Residents and Fellows

Emergency Room: 7day/week 52 weeks (Drs. R. Becker, R. Bunea, M. Elizov, B. Cummings, J. Raffoul, L. Trudeau, V. Tagalakis, B. Schwartz) 52 weeks (Residents & Fellows)

Core Lectures: 10 hours/year: Drs. R. Becker, M. Elizov, B. Cummings, S. Kahn, J. Raffoul, L. Trudeau, V. Tagalakis, J. Hoffer, B. Schwartz, J. Lipes; Residents: 20-30

Professional Skills Tutorial Group: 48 hours/year, 30-36 Students: Drs. Trudeau, Tagalakis, Bunea, Echocardiography Courses: 8 hours/year, Critical Care Fellowship (Dr. J. Lipes)

Simulation center: 24 hours/year (Drs V. Tagalakis, R. Bunea, M. Elizov, B. Schwartz)

Intensive Care Teaching Unit: 10 weeks/year (Dr. J. Lipes, B. Schwartz)

Intensive care Consults: 10 weeks/year (Dr. J. Lipes, B. Schwartz)

Hoffer, L John

-Diagnosis and Treatment of Malnutrition in Hospitalized Patients. Lecture 2/3 to 1/3 of McGill Med 3 class, February 2, 2016 (4 hours)

-Nine hours of lectures in Block D of First Year Medicine (Fundamentals of Medicine and Dentistry) on human body composition and bioenergetics, protein metabolism in health and disease, obesity, causes, implications and treatment, appetite and eating behavior, anorexia and cachexia, vitamin and mineral nutrition, starvation, weight loss and frailty, evidence-based nutrition and comprehensive nutritional assessment: Feb 1,3,4,8,9,10,11,12 and March 3, 2016 (90 hours)

-Diagnosis and Treatment of Malnutrition in Hospitalized Patients. Lecture to 3/3 to 1/3 of McGill Med 3 class, May 24, 2016 (4 hours)

-Diagnosis and Treatment of Malnutrition in Hospitalized Patients. Lecture to 1/3 to 1/3 of McGill Med 3 class of UGME 2018, September 20, 2016 (4 hours)

-Diagnosis and Treatment of Malnutrition in Hospitalized Patients. Lecture to 2/3 to one-third of McGill Med 3 MDCM UGME grad year 2018, February 14, 2017 (4 hours)

-Diagnosis and Treatment of Malnutrition in Hospitalized Patients. Lecture to 3/3 to one-third of McGill Med 3 UGME grad year 2018, May 30, 2017 (4 hours)

-Antioxidant Defenses: Non-enzymatic. Departments of Neurology, Neurosurgery and Experimental Medicine Course 531-550B: Free Radical Biomedicine. January 25, 2016 (6 hours)

-Diabetes mellitus. Departments of Neurology, Neurosurgery and Experimental Medicine Course 531-550B: Free Radical Biomedicine. April 4, 2016 (6 hours)

-Surgical Nutrition. McGill Faculty of Medicine PGY1 Surgery seminar, MUHC-Montreal General Hospital, July 18, 2016 (4 hours)

-Starvation and malnutrition. Faculties of Science and Agricultural and Environmental Sciences Course 307, Human Nutrition, November 24, 2016 (4 hours)

Schiffrin, Ernesto L

-2 half days per weeks: Teaching of Internal Medicine residents and Clinical Pharmacology fellows at Cardiovascular Prevention (McGill Fellows: Yusuf Bahbahani and Tofal Alnashmi)

-Chair of weekly Medical Grand Rounds.

-Supervision of M.Sc. & PhD student, Division of Experimental Medicine, McGill University: (MSc [1]: Sofiane Ouerd, Thesis on Endothelin and inflammation in cardiovascular disease; PhD [3]: Oneeb Mian, Thesis on Dysregulated activation of immune-inflammatory responses contributes to vascular damage in atherosclerosis and hypertension and Suellen Coelho, Thesis on Inducible

transgenic mouse overexpressing human endothelin-1; Kugeng Huo, Thesis on MicroRNA in vasculature in hypertension and metabolic syndrome)

Tagalakis, Vicky

Mentorship, research training, and teaching:

-Supervision of Graduate Students (3): Maral Koolian, MSc Adi Klil-Drori, Postdoctorate fellow, Dinela Rushani, PhD student, McGill University

-McGill University Courses/small groups - Undergraduate:

Group Leader, Unit 8, Clinical Epidemiology, Faculty of Medicine, McGill University

Group leader, Evidence based medicine, Faculty of Medicine, McGill University CME

-Periprocedural Management of Anticoagulants in 2016. 67th Annual Refresher Course for Family Physicians, McGill University, Montreal, Canada, The Management of Venous Thromboembolism in 2016

3. Involvement in the community:

Elizov, Michelle

-General Internal Medicine Global Health Initiative: Haiti Project. Dr. Michelle Elizov, Director of Medical Education for the Division, launched the Haiti Project and organized the third formal rotation in 2016

Hoffer, L John

McGill

-Diagnosis and Management of In-Hospital Malnutrition, JGH Internal medicine divisional rounds, March 24, 2016.

-Surgical Nutrition. McGill Faculty of Medicine PGY1 Surgery seminar, MUHC-Montreal General Hospital, July 18, 2016

-Antioxidant Defenses: Non-enzymatic. Departments of Neurology, Neurosurgery and Experimental Medicine Course 531-550B: Free Radical Biomedicine. January 25, 2016

-Diabetes mellitus. Departments of Neurology, Neurosurgery and Experimental Medicine Course 531-550B: Free Radical Biomedicine. April 4, 2016

-Diagnosis and Treatment of Malnutrition in Hospitalized Patients. Lecture to 1/3 of McGill Med 3 class, Feb 2, May 24 and September 20, 2016

-Starvation and malnutrition. Faculties of Science and Agricultural and Environmental Sciences Course 307, Human Nutrition, November 24, 2016

National

-Austin, TX: Protein requirements in protein-catabolic critical illness. American Society for Parenteral and Enteral Nutrition Clinical Nutrition Week 2016, January 17, 2016

-Online audiovisual webinar presentation: Protein requirements in protein-catabolic critical illness based on ASPEN conference presentation. March 7, 2016

(<http://www.screencast.com/t/xNdAm92il>)

-Cold Spring Harbor, NY: Redox clinical trials. Banbury Conference on Making Oxidative Chemotherapy Less Toxic. The Banbury Center, Cold Spring Harbor Laboratory, September 14, 2016

- Charleston, SC: Will we ever agree on protein requirements in the ICU? Nestle International Protein Summit, September 24, 2016
- Kansas City, MO: Does clinical research with vitamin C and cancer have a future? Intravenous Vitamin C and Integrative Therapies, KU Integrative Therapies, the University of Kansas Medical Center, October 1, 2016

Kahn, Susan R

National

- Guidelines on Treatment of VTE. A practical course in emergency medicine. Department of Emergency Medicine and the Continuing Education Office, McGill University Health Centre and Continuing Professional Development, Faculty of Medicine, McGill University. Montreal, Canada, December 12, 2016.
- CSIM Dr. David Sackett Senior Investigator Award Keynote Address: “What I learned in business school: Entrepreneurship as a model for a research career in general internal medicine”. Canadian Society of Internal Medicine 2016 Annual Meeting. Montreal, Canada, October 28, 2016.
- Canadian Venous Thromboembolism Clinical Trials and Outcomes Research Network. Presented at HTRS ConECCTOR Meeting, Thrombosis and Haemostasis Society of North America. Chicago, IL, April 14, 2016.

International

- Faculty Speaker, American Society of Hematology 2016 Junior Researcher Symposium, American Society of Hematology 58th Annual Conference, San Diego, CA, December 2, 2016, 2-5PM.
- Chair, ASH Education Session, Managing Severe Thrombosis and Sequelae, American Society of Hematology 58th Annual Conference, San Diego, CA, December 5, 2016.
- Invited Speaker, ASH Education Session, Post Thrombotic Syndrome, American Society of Hematology 58th Annual Conference, San Diego, CA, December 5, 2016.

Schiffrin, Ernesto L

Outside McGill University

- Debate: Animal models are or not a appropriate for study of human hypertension. Invited speaker, Quebec Hypertension Society, Montreal, QC, January
- Discussion on implications of SPRINT trial. Invited speaker, Quebec Hypertension Society, Quebec City, January 14, 2016.
- The Immune System & Cardiovascular Disease, invited State-of-the-Art Lecture, Canadian Hypertension Congress, Montreal, October 20, 2016.
- SPRINT Trial: Update on hypertension management 2016. Opening Plenary Lecture at Canadian Society of Internal Medicine Annual Meeting, October 26, 2016.

National

- High blood pressure, blood vessels and inflammation: the good, the bad and the ugly. Public lecture for the Margolese National Heart Disorders Prize, Vancouver, BC, November 24, 2016.

International

- Pharmacologic treatment of hypertension. Invited speaker, Chinese Hypertension League Workshop in Zhengzhou, Henan, P.R. of China, July 30, 2016.

- Pharmacologic treatment of hypertension. Invited speaker, Chinese Hypertension League Workshop in Urumqi, Xinjiang, P.R. of China, July 31, 2016.
- T regulatory lymphocytes in hypertension. Invited State-of-the-Art lecture, American Physiological Society Conference on Inflammation, Immunity and Cardiovascular Disease, Westminster, Colorado, August 27, 2016.
- Microvascular origins of hypertension: function and remodeling. 6th Annual Meeting of North American Artery Society, University of Illinois in Chicago, IL, September 9, 2016.
- “Is It Time to Reappraise Blood Pressure Thresholds and Targets?”, Council on Hypertension 2016 -Annual Scientific Sessions, Advances in Hypertension, Orlando, FL, September 14, 2016.
- Adaptation of major guidelines for regional applications. Invited lecture, International Society of Hypertension Scientific Meeting, Seoul, Korea, September 26, 2016.
- “Do we need a new definition for hypertension?”. Invited lecture, International Society of Hypertension Scientific Meeting, Seoul, Korea, September 27, 2016.
- Mechanism of endothelin 1 regulation in hypertension: The role of endothelin type A receptors. Invited lecture, International Society of Hypertension Scientific Meeting, Seoul, Korea, September 28, 2016.
- SPRINT - Is it Time to Redefine Hypertension? Invited speaker to Cardiovascular Seminar on Clinical Management of Hypertension: Moving Forward from SPRINT-Global Implications. American Heart Association Annual Scientific Sessions, New Orleans, LA, November 14, 2016.

Tagalakis, Vicky

McGill University

- Tagalakis V. Malignancy & Thrombosis: Going Beyond Trousseau. Oral presentation at: Medical Grand Rounds, Jewish General Hospital, McGill University, Montreal, Canada, 2016.

National

- Tagalakis V. Distal deep vein thrombosis: what to do? Oral presentation at: Société des sciences vasculaires du Québec (SSVQ); 2016 December 9; Montreal, Canada.
- Gerson H, Tagalakis V, MacNamara E, Eintracht S. ED Use of D-dimers for the Diagnosis of VTE. Poster presentation at: Canadian Medical Biochemistry meeting; 2016 November; Montreal Canada.
- Tagalakis V. Perioperative Management of Patients on Anticoagulants and of Patients with Prothrombotic States. Oral presentation at: CSIM Annual Meeting; 2016 October 26; Montreal, Canada.
- Tagalakis V. Thromboses inhabituelles : Du complément au cancer. Oral presentation at: Société des sciences vasculaires du Québec (SSVQ); 2016 September 16; Montreal, Canada.
- Tagalakis V. The STEP-CAT Cohort Management Study: Step-down to prophylactic doses of enoxaparin after a minimum of 3-6 months of anticoagulation for the treatment of cancer-associated thrombosis. Oral presentation at: 1st Annual CanVECTOR Conference; 2016 June 8; Toronto, Canada.
- Tagalakis V. CanVECTOR Network Quality of care and effectiveness research platform. Oral presentation at: 1st Annual CanVECTOR Conference; 2016 June 8; Toronto, Canada.
- Larivée N, Suissa S, Coulombe J, Tagalakis V, Filion K. Drospirenone-containing oral contraceptives and the risk of venous thromboembolism: the methodological challenges in identification of first-time users in healthcare databases. Oral presentation at: 7th Annual Lady Davis Institute Scientific Retreat; 2016 June 3; Montreal, Canada.

-Tagalakis V. Thromboembolic Disease in Patients Undergoing Robotics for Endometrial Cancer. Oral presentation at: GOC's 37th Annual General Meeting; 2016 June 16-18; Vancouver, Canada.

-Tagalakis V. Cases of anticoagulation: small group session. Oral presentation at: Canadian Digestive Diseases Week (CDDW); 2016 February 26-29; Montreal, Canada.

International

-Klil-Drori A, Coulombe J, Nessim SJ, Tagalakis V. The Risk of Major Bleeding with Low-Molecular-Weight-Heparins for Venous Thromboembolism in Dialysis Patients: The Q-VTE Study. Oral presentation: 58th ASH Annual Meeting. 2016 December 3-6; San Diego, California.

-Davies G, Lazo-Langner A, Gandara E, Tagalakis V, Louzada M, Corpuz R, Kovacs MJ. A Pilot Study in Cancer Patients with Central Venous Catheter Associated Deep Vein Thrombosis in Upper Extremity Treated with Rivaroxaban (Catheter 2). Oral presentation at: 58th ASH Annual Meeting & Exposition; 2016 December 3-6; San Diego, California.

-Tagalakis V. The Complexity of Cancer and Thrombosis: Practical Application in Clinical Cases. Oral presentation at: Chilean Hematologic Society; 2016 May 23-25; Santiago, Chile.

4. **Partnerships:** None to report

5. **Honours, awards, and prizes:**

Dr. Beth-Ann Cummings, Associate Professor in the Division of General Internal Medicine at the JGH and Associate Dean, Undergraduate Medical Education, has been named to the Faculty Honour List for Education Excellence for 2016-2017.

Dr. Michelle Elizov was honoured as the Osler Fellow to the class of 2017

Dr. Jed Lipes was voted as Teacher of the Year by the residents.

Dr Susan Kahn received the CSIM 2016 David Sacket Award

Dr. Susan Kahn, Winner of the 2016 Canadian Society of Internal Medicine (CSIM) Dr. David Sackett Senior Investigator Award. This award recognizes excellence in research by a senior Canadian general internist, and is intended to increase awareness of high-quality research by general internists in Canada and to foster such research

Dr. Susan Kahn, Elected to Fellowship in the Canadian Academy of Health Sciences (CAHS) on the basis of demonstrated leadership, creativity, distinctive competencies and commitment to advance academic health sciences. Membership in the CAHS is considered one of the highest honours for members of the Canadian health sciences community

Dr. Ernesto L. Schiffrin became the Editor-in-Chief of the American Journal of Hypertension in January 2016.

Dr Ernesto Schiffrin was awarded **The Margolese National Heart Disorders Prize 2016** for advancing the understanding of high blood pressure's effects on vasculature and for his outstanding contributions to the treatment, amelioration, or cure of heart disorders. He was one of 3 of Canada's leading researchers in brain health, heart health and cancer to have been singled out by the

University of British Columbia Faculty of Medicine for their accomplishments, and for their potential to make further contributions in their fields.

Dr Vicky Tagalakis was appointed the **McGill Division Director** as of September 15, 2016.

7. Milestones:

Dr. Maral Koolian was recruited as full-time staff.

8. Fundraising: None to report.

SECTION 1 - DIVISION STATUS

1. Mission and objectives of the Division

The Division of Internal Medicine will continue to enhance McGill University in their role as one of Quebec's leading teaching institutions. Our Division fulfills its role in achieving high standards in all aspects of academic medicine. All physicians in the division have a clear academic role. Recruitment is the most important priority as the burden of clinical service has become increasingly higher over the years.

2. A nominative list of academic staff, their academic rank

Dr. Rubin Becker, Associate Professor of Medicine, McGill University; Chief, Division of Internal Medicine, Jewish General Hospital

Dr. Ruxandra Bunea, Assistant Professor of Medicine, McGill University; Director Postgraduate Education, Jewish General Hospital

Dr. Beth Cummings: Associate Professor of Medicine, McGill University; Associate Dean, Undergraduate Medical Education, McGill University

Dr. Michelle Elizov: Associate Professor of Medicine, McGill University; Director of Medical and University Education, CIUSSS Centre Ouest de l'Île de Montréal

Dr. L John Hoffer: Professor of Medicine, McGill University; Member and Associate Chair, JGH Research Ethics Committee

Dr. Susan R Kahn: Professor of Medicine, McGill University; Program Director, Thrombosis Fellowship, McGill University; Director, Thrombosis Clinic, Jewish General Hospital

Dr. Maral Koolian: Assistant Professor of Medicine, McGill University,

Dr. Jed Lipes: Assistant Professor of Medicine, McGill University, Director of Critical Care Ultrasound and Echocardiography, Critical Care Fellowship Program, McGill University, Director of bedside ultrasound training for core internal medicine, McGill University

Dr. Joseph Raffoul: Assistant Professor of Medicine, McGill University; CTU Director and Medical Gatekeeper, Jewish General Hospital; Medical Director, Mount Sinai

Dr. Ernesto L Schiffrin: Professor and Vice-Chair (Research), Department of Medicine, McGill University; Physician-in-Chief and Director of the Cardiovascular Prevention Centre, Jewish

General Hospital; Canada Research Chair in Hypertension and Vascular Research, Lady Davis Institute for Medical Research

Dr. Blair C Schwartz: Assistant Professor, McGill University

Dr. Vicky Tagalakis: Associate Professor, McGill University

Dr. Luc Trudeau: Assistant Professor, McGill University; Director of Professional Services; Jewish Rehabilitation Hospital

SECTION II - PUBLICATIONS, AND SERVICES OUTSIDE MCGILL

1. Grants and awards received

Cummings, Beth

2015-2016: Medical Council of Canada W. Dale Dauphinee Fellowship: The W. Dale Dauphinee Fellowship is intended to advance the vision of the Medical Council of Canada (MCC) by supporting medical educators to enhance their knowledge and skills in physician assessment.

2015-2016: Medical Council of Canada Clinical Assessment Grant. St-Onge C, Young ME, Varpio L, Renaud JS, **Cummings B**. Which, Why and How are Item Analysis Guidelines Applied When Monitoring the Quality of Examinations? Interviews with Key Informants.

Kahn, Susan R

2015-2020: Co-director and Nominated Principal Investigator, CanVECTOR Network (CIHR- and partner-funded national research and training network in venous thromboembolism)

2015-2022: Canadian Institutes of Health Research-Foundation Scheme: 2014 1st Live Pilot: Improving long term outcomes after venous thromboembolism (VTE); Kahn SR (Principal Applicant); \$2,050,822

2015-2020: Canadian Institutes of Health Research- ICRH Community Development Program Grants - Sleep and Circadian Rhythms and Venous Thromboembolic Diseases Clinical Trials CanVECTOR (Canadian Venous Thromboembolism Clinical Trials and Outcomes Research) Network; Kahn SR (Principal Applicant); \$1,500,000 (CIHR component) + \$3,800,000 (Partner support)

2015-2018: Heart and Stroke Foundation of Ontario: Age-adjusted D-dimer cutoff levels to rule out deep vein thrombosis (The ADJUST-DVT Study); Le Gal G (PI) / Kahn SR (co-applicant); \$255,538

2015-2016: Canadian Institutes of Health Research-Knowledge Synthesis Grant: Effectiveness of interventions for implementation of thromboprophylaxis in hospitalized patients at risk for venous thromboembolism: An updated systematic review and meta-analysis; Kahn SR (principal applicant); \$100,000

2014-2021: Canada Research Chairs (CRC)- Tier 1 Chairs: Improving long term outcomes after venous thromboembolism (VTE); \$1,400,000

2014-2016: National Institutes of Health/NHLBI-Clinical Trials Planning Studies for Rare Thrombotic and Hemostatic Disorders (U34): Chronic Venous Thrombosis: Relief with Adjunctive Catheter-Based Therapy (C-TRACT) Study. Vedantham S (PI)/ Kahn SR (co-applicant)/ Kearon C; \$663,942

2013-2017: Canadian Institutes of Health Research: D-dimer testing, tailored to clinical pretest probability, to reduce use of CT pulmonary angiography in suspected pulmonary embolism: A management study. (PE Graduated D-dimer [PEGeD] Study). Kearon C (PI)/ Kahn SR (co-applicant); \$981,032

2013-2016: Canadian Institutes of Health Research: D-dimer testing, tailored to clinical pretest probability, to minimize initial and follow-up ultrasound testing in suspected deep vein thrombosis: A management study. Kearon C (PI)/ Kahn SR (co-applicant); \$742,083

2013-2016: Canadian Institutes of Health Research: Development and validation of clinical prediction rules for bleeding for patients on anticoagulant therapy for venous thromboembolism. Wells PS (PI)/ Anderson D/ Kahn SR (co-applicant); \$501,083

2013-2016: Heart and Stroke Foundation of Canada: Rivaroxaban for the secondary prevention of thromboembolism in patients with antiphospholipid antibody syndrome. Crowther M (PI)/ Blostein M/ Carrier M/ Kahn SR (co-applicant)/ Schulman S; \$166,336

2012-2016: Canadian Institutes of Health Research: Extended Venous Thromboembolism Prophylaxis Comparing Rivaroxaban to Aspirin Following Total Hip and Knee Arthroplasty (EPCAT II). Anderson D (PI)/ Kahn SR (co-applicant); \$3,044,877

Schiffrin, Ernesto L

2013-2019: Canada Research Chair in Vascular and Hypertension Research; \$1,400,000

2010-2015: CIHR MOP102606 "T-regulatory cells and vascular injury in hypertension"; \$757,495

2015-2022: CIHR MOP123465 "MicroRNAs and gene regulation on vascular remodeling in hypertension from mice to humans" (2012-2017, replaced July 1, 2015 by Foundation; Grant; \$583,717

2015-2022: CIHR First Pilot Foundation Grant "Vascular remodeling in hypertension and cardiometabolic disease: from mice to humans"; \$3,160,000

Tagalakis, Vicky

2016-2019: Canadian Institutes of Health Research "StAtins for Venous Event Reduction in patients with venous thromboembolism (The SAVER Pilot Randomized Trial)" Rodger (PI)/ Tagalakis (Co-Investigator); \$424,298.00

2015-2022: Canadian Institutes of Health Research: “Statistical Methods in Pharmacoepidemiology and Perinatal Epidemiology” Platt (PI)/ Tagalakis (Co-Investigator); \$1,071,721

2015-2020: Canadian Institutes of Health Research: “ICRH Community Development Program Grants - Sleep and Circadian Rhythms and Venous Thromboembolic Diseases Clinical Trials Grant”, Kahn (PI)/ Rodger (Co-PI)/ Tagalakis (Co-Investigator); \$1,500,000

2015-2016: Canadian Institutes of Health Research; “Effectiveness of interventions for implementation of thromboprophylaxis in hospitalized patients at risk for venous thromboembolism: An updated systematic review and metaanalysis”; Kahn (PI)/ Tagalakis (Co-Investigator); \$100,000

2012-2016: Canadian Institute of Health and Research: “New Oral Anticoagulants for the Prevention of Venous Thromboembolism in High-Risk Ambulatory Cancer Patients: A Randomized Placebo-Controlled Double-Blind Clinical Trial”; Wells (PI)/ Kahn/ Tagalakis (Co-Investigator); \$836,841

2014-2017: Jewish General Hospital GFT (H), Department of Medicine; \$24,000

2. Scholarly works published in the 2016 calendar year:

Cummings, Beth-Ann

--Worley P, Couper I, Strasser R, Graves L, **Cummings B-A**, Woodman R, Stagg P, Hirsh D, and the CLIC Research Collaborative (2016). A typology of longitudinal integrated clerkships. *Medical Education*. 50(9): 922-932

--Ellaway R, Graves L, **Cummings B** (2016). Dimensions of integration, continuity, and longitudinality in clinical clerkships. *Medical Education*. 50(9):912-921

Hoffer, L John

--Hoffer LJ. Protein requirement in critical illness. *Appl Physiol Nutr Metab* 41:573-6, 2016 (<http://dx.doi.org/10.1139/apnm-2015-0551>)

--Robitaille L, **Hoffer LJ**. A simple method for plasma total vitamin C analysis suitable for routine clinical laboratory use. *Nutr J* 2016;15:40 DOI: 10.1186/s12937-016-0158-9 URL: <http://www.nutritionj.com/content/15/1/40> (April 21, 2016)

--**Hoffer LJ**, Robitaille L, Swinton N, Agulnik J, Cohen V, Small D, Pepe C, Eintracht E. Appropriate vitamin D loading regimen for patients with advanced lung cancer. *Nutr J*. 15:84 DOI: 10.1186/s12937-016-0203-8 URL: <http://www.nutritionj.com/content/15/1/84> (October 6, 2016)

--**Hoffer LJ** and Bistrrian BR. Nutrition in critical illness: a current conundrum. *F1000Research* 2016, 5 (F1000 Faculty Rev):2531 (doi: 10.12688/f1000research.9278.1) published October 18, 2016

--**Hoffer LJ**. Human protein and amino acid nutrition: a tutorial. *JPEN J Parenter Enteral Nutr* 40:460-474, 2016 (April 26, 2016)

Kahn, Susan

--**Kahn SR**. The Post Thrombotic Syndrome. *Hematology (Am Soc Hematol Educ Program)*. 2016 Dec 2;2016(1):413-418

--Righini M, Galanaud J-P, Guennevez H, Brisot D, Diard A, Faisse P, Barrellier M-T, Hamel-Desnos C, Jurus C, Pichot O, Martin M, Mazzolai L, Choquenot C, Accassat S, Robert-Ebadi H, Carrier M, Le Gal G, Mermillod B, Laroche J-P, Bounameaux H, Perrier A, **Kahn SR**, Quere I. Anticoagulant therapy for symptomatic calf deep vein thrombosis (CACTUS): a randomised, double-blind, placebo-controlled trial. *Lancet Haematol*. 2016 Dec;3(12):e556-e562

--Sista AK, Miller LE, **Kahn SR**, Kline JA. Persistent right ventricular dysfunction, functional capacity limitation, exercise intolerance, and quality of life impairment following pulmonary embolism: Systematic review with meta-analysis. *Vasc Med* 2016 Oct 5. pii: 1358863X16670250. [Epub ahead of print]

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SECTION III - CONFIDENTIAL INFORMATION

1. Consulting activities:

| Name of Faculty Member | Private Consults | Public Sector Consulting # of days | Other # of Days | Total # of Days |
|-------------------------------|-------------------------|--|------------------------|------------------------|
| Dr. Jed Lipes | | ICU Jean Talon Hospital | | 56 |
| Dr. Blair Schwartz | | ICU Jean Talon Hospital | | |
| Dr. Joe Raffoul | | Internal Medicine Consults Lakeshore General Hospital, 2 evenings/month | | 24 |
| | | Mount Sinai Hospital - ½ day/week | | 26 |
| | | Brunswick Medical Centre-1 day/month | | 12 |
| Dr. Luc Trudeau | | Institut de Réadaptation - 1 day/month | | 12 |
| | | Internal Medicine Consults for Jewish Rehabilitation Hospital - 1 day/week | | 52 |
| | | | | |

Respectfully Submitted

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