

Annual Report
Division of Internal Medicine
Department of Medicine - Jewish General Hospital
January 1 - December 31, 2015

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.

We are proud to announce that **Beth Cummings** was nominated Associate Dean of Undergraduate Medical Education, Faculty of Medicine, McGill University and **Vicky Tagalakis** was nominated Director, Division of General Internal Medicine, McGill University.

Susan Kahn was awarded co-director and nominated Principal Investigator for the CanVECTOR Network (CIHR- and Partner-funded national research and training network in venous thromboembolism) with grants in the amount of 7,475,822 from the CIHR.

Ernesto Schiffrin received a CIHR First Pilot Foundation Grant in the amount of \$3,160,00 for his research on "Vascular remodeling in hypertension and cardiometabolic disease: from mice to humans"

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: 7day/week

- 52 weeks/year (Drs. R. Becker, M. Koolian, M. Elizov, B. Cummings, J. Raffoul, L. Trudeau, V. Tagalakis, B. Schwartz)
- 52 weeks with 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 2014-2015 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:

-*Cohen JM, Beddaoui M, Kramer MS, Platt RW, Basso O, Kahn SR. Maternal antioxidant levels in pregnancy and preeclampsia or small for gestational age birth: A Systematic Review and Meta-Analysis. PLoS One. 2015 Aug 6;10(8):e0135192.

-*Rabinovich A, *Cohen JM, Cushman M, Wells PS, Rodger MA, Kovacs MJ, Anderson DR, Tagalakis V, Lazo-Langner A, Solymoss S, Miron MJ, Yeo E, Smith R, Schulman S, Kassis J, Kearon C, Chagnon I, Wong T, Demers C, Hanmiah R, Kaatz S, Selby R, Rathbun S, Desmarais S, Opatrny L, Ortel TL, Ginsberg JS, Kahn SR. Inflammation Markers and Their Trajectories after Deep Vein Thrombosis in relation to Risk of Postthrombotic Syndrome. J Thromb Haemost 2015 Mar;13(3):398-408.

-Rautureau Y, Coelho SC, Fraulob-Aquino JC, Huo K-G, Rehman A, Offermanns S, Paradis P, Schiffrin EL. Inducible human endothelin-1 overexpression in endothelium raises blood pressure via endothelin type A receptors. Hypertension. 2015; 66:347-355. DOI: 10.1161/HYPERTENSIONAHA.115.05168. PMID: 2610134.

-Ferrario CM, Schiffrin EL. Translational Success Stories: Role of Mineralocorticoid Receptor Antagonists in Cardiovascular Disease. Circ Res. 2015; 116: 206-213. doi: 10.1161/CIRCRESAHA.116.302706. PMID: 25552697.

-Townsend R, Wilkinson I, Schiffrin EL, Avolio A, Bradley TJ, Chirinos JA, Cockcroft J, Ellison D, Heffernan K, Lakatta EG, McEniery C, Mitchell GF, Najjar S, Nichols W, Urbina E, Weber T; on behalf of the American Heart Association Council on Hypertension. Recommendations for Improving and Standardizing Vascular Research on Arterial Stiffness. A Scientific Statement of the American Heart Association. Hypertension. 2015;66:698-722. DOI: 10.1161/HYP.0000000000000033. PMID: 26160955.

-Leung Yinko SS, Maheswaran J, Pelletier R, Bacon SL, Daskalopoulou SS, Khan NA, Eisenberg MJ, Karp I, Lavoie KL, Behloul H, Pilote L; GENESIS-PRAXY investigators (Tagalakis V). Sex differences in health behavior change after premature acute coronary

syndrome. American Heart Journal 2015; 170(2):242-248.

-Carrier M, Lazo-Langner A, Shivakumar S, Tagalakis V, Zarychanski R, Solymoss S, Routhier N, Douketis J, Danovitch K, Lee AY, Le Gal G, Wells PS, Corsi DJ, Ramsay T, Coyle D, Chagnon I, Kassam Z, Tao H, Rodger MA; SOME Investigators. Screening for occult cancer in unprovoked venous thromboembolism. The New England Journal of Medicine 2015; 373(8): 697-704.

-Easaw JC, Shea-Budgell MA, Wu CMJ, Czaykowski PM, Kassis J, Kuehl B, Lim HJ, MacNeil M, Martinusen D, McFarlane PA, Meek E, Moodley O, Shivakumar S, Tagalakis V, Welch S, Kavan P. Canadian consensus recommendations on the management of venous thromboembolism in patients with cancer. Part 2: treatment. Current Oncology 2015; 22(2):144-155.

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. Tagalakis, 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;

Orals & Exams:

-3 hours/year Dr. Lalonde

Professional Skills Tutorial Group:

-48 hours/year, 30-36 Students: Dr. A. Lalonde

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

-128 hours: 8 formal 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, and comprehensive nutritional assessment: Jan 29, 30, Feb 2,10,12,13 and March 2, 2015 (120 h)

-15 hours: Evidence-based use of nutritional supplements, McGill Faculty of Medicine Wednesday E-Learning Series, March 25, 2015

-10 hours: Surgical Nutrition and Metabolism. McGill University PGY1 Surgery seminar, Glen site MUHC, June 11, 2015

-15 hours: Diagnosis and Treatment of Malnutrition in Hospitalized Patients. Lecture to McGill Med 3 class, October 3, 2015

-8 hours: Adaptation of Protein and Energy Metabolism to Under-nutrition. Faculties of Science and Agricultural and Environmental Sciences Course 307, Human Nutrition, November 19, 2015

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 2015. 66th Annual Refresher Course for Family Physicians, McGill University, Montreal, Canada, 2015
- The Management of Venous Thromboembolism in 2015. 66th Annual

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 second formal rotation in 2015

Hoffer, L John

-Montreal, QC: Nutrition Without Harm: Feeding the Critically Ill Patient ~ Protein and Energy Requirements. Canadian Patient Safety Institute and Canadian ICU Collaborative across-Canada webinar address, March 11, 2015

McGill

-Nutrients and the Brain. McGill University Faculty of Science Cutting Edge Lectures in Science, Montreal, QC, January 8, 2015

National

- Protein requirement in critical illness. Canadian Society of Nutrition Thematic Conference: Advanced in Protein Nutrition Across the Lifespan, Toronto, ON, January 10, 2015
- Evidence-based orthomolecular medicine: principles and practice. Orthomolecular Medicine Today 44th Annual International Conference, Toronto, ON, April 25, 2015
- Protein requirements in critical illness: a scientific analysis. Sharpening Nutrition Support Skills and Strategies: Focus on Physical Assessment and Protein Needs in Critical Illness and Recovery. Nestle Health Science Educational Event, Toronto, ON, September 17, 2015

Kahn, Susan R

National

- Tips for effective navigation of the rocky road from great idea to funded RCT. Academic half day, University of Toronto. Toronto, ON, May 26, 2015
- The SOX Trial (a placebo-controlled device trial) and beyond. City Wide Hematology rounds, University of Toronto. Toronto, ON, May 26, 2015

International

-Long-term outcomes after PE: results of the ELOPE study. SIR Foundation Research Consensus Panel (RCP) “Submassive Pulmonary Embolism Short and Long-term Outcomes: Where Are We and Where Do We Need to Be?” Herndon, VA, December 16, 2015

- Determinants of the post-thrombotic syndrome. Annual Congress of the French Society of Phlebology, Paris, France, December 12, 2015
- Post-thrombotic syndrome management in Canada (prevention and treatment). Annual Congress of the French Society of Phlebology, Paris, France, December 11, 2015.
- Co-chair, 1st meeting of the International Network of VTE Research Networks. Orlando, FL, December 3-4, 2015
- What is PTS? How is it diagnosed? Why is it important? American Heart Association Scientific Sessions 2015, Orlando, FL, November 10, 2015
- Session Moderator: The Post-Thrombotic Syndrome: Incorporating Evidence and the new clinical guidelines. American Heart Association Scientific Sessions 2015, Orlando, FL, November 10, 2015
- Venous Thromboembolism: What Are We Doing Well? Where Are The Gaps? American Heart Association's Vascular Disease Thought Leaders' Summit, Boston, MA, August 20, 2015
- Career mentorship session (invited mentor). XXV Congress of the International Society on Thrombosis and Haemostasis. Toronto, ON, June 24, 2015
- Post-thrombotic syndrome. Master class (invited Master). XXV Congress of the International Society on Thrombosis and Haemostasis. Toronto, ON, June 21, 2015
- Distal deep venous thrombosis: To treat or not to treat. 2015 Hemostasis and Thrombosis Research Society Scientific Symposium, New Orleans, LA, April 18, 2015
- Debate: Compression is Not a Key Component of Treating DVT Patients: The SOX Trial. 2015 Annual Meeting of the American Venous Forum, Palm Springs, CA, February 28, 2015

Schiffrin, Ernesto L

National

- Mechanisms of vascular remodeling in hypertension. Canadian Society of Clinical Investigation (CSCI) Distinguished Scientist Award Lecture, CSCI Scientific Meeting, Toronto, November 25, 2015
- Immunity and novel systems biology approaches to study hypertension. Invited Research Seminar, Meakins-Christie Research Institute, McGill University, December 14, 2015

International

- Do diabetes and CKD warrant different BP goals? Invited lecture, American College of Cardiology Annual Meeting, San Diego, CA, March 17, 2015
- Vascular stiffness, a novel therapeutic target for hypertension, invited lecture at Symposium on Vascular Stiffness, FASEB and American Society of Pharmacology & Experimental Therapeutics, Boston, March 29, 2015
- Difficult to control hypertension. Invited lecture, South American Hypertension Summer School, Tucumán, Argentina, April 22, 2015
- BP goals in diabetes and chronic kidney disease. Invited lecture, South American Hypertension Summer School, Tucumán, Argentina, April 23, 2015
- Role of immunity and systems biology of molecular networks in hypertension. Invited Inaugural State-of-the-Art Lecture, Argentine Society of Hypertension, Tucumán, Argentina, April 23, 2015
- Pharmacological Treatment of Hypertension. Workshop of Chinese Hypertension League,

Nanning, PR of China, August 1, 2015

-Pharmacological Treatment of Hypertension. Workshop of Chinese Hypertension League, Hefei, PR of China, August 2, 2015

-Primary Aldosteronism, Invited lecture, International Society of Hypertension-Asia Pacific Society of Hypertension-Chinese Hypertension League Hypertension Summer School, Beijing, August 4, 2015

-Pheochromocytoma, Invited lecture, International Society of Hypertension-Asia Pacific Society of Hypertension-Chinese Hypertension League Hypertension Summer School, Beijing, August 4, 2015

-Who to study for secondary hypertension, Invited lecture, International Society of Hypertension-Asia Pacific Society of Hypertension-Chinese Hypertension League Hypertension Summer School, Beijing, August 4, 2015

-BP goals in diabetes and chronic kidney disease. Invited International State-of-the-Art Lecture at the XXIII Congress of the Brazilian Society of Hypertension, Rio de Janeiro, Brazil, August 14, 2015

-Submitting a scientific manuscript for publication. Invited lecture at Symposium of the InterAmerican Society of Hypertension on "Publication of scientific manuscripts" at the XXIII Congress of the Brazilian Society of Hypertension, Rio de Janeiro, Brazil, August 14, 2015

-Vascular changes in hypertension, pathophysiology and treatment. Invited State-of-the-Art Lecture at 1st Annual Meeting of the Hypertension Society of Chile, Santiago de Chile, September 3, 2015

-Role of inflammation and immune mechanisms in hypertension, Invited State-of-the-Art Lecture at 1st Annual Meeting of the Hypertension Society of Chile, Santiago de Chile, September 3, 2015

-Guidelines for Management of HTN 2015: The case for short and simple hypertension recommendations. Invited State-of-the-Art Lecture at 1st Annual Meeting of the Hypertension Society of Chile, Santiago de Chile, September 4, 2015

-Update on inflammation and immunity in hypertension. Invited State-of-the-Art lecture at the 20th Takeda Hypertension Symposium of The University of Tokyo Graduate School of Medicine, Tokyo, Japan, September 26, 2015

-T-cells in hypertension, Invited lecture at Sunday Morning Program on Immune Cells and Cardiovascular Disease, American Heart Association Scientific Sessions, Orlando, FL, November 8, 2015

-Immune mechanisms in hypertension and vascular injury, Invited lecture at session on Connecting the Dots: Immunity, Salt, and Hypertension, American Heart Association Scientific Sessions, Orlando, FL, November 10, 2015

Tagalakis, Vicky

National

-The management of venous thromboembolism in cancer patients. Medical Grand Rounds, Jewish General Hospital, McGill University, Montreal, Canada, 2015

- Optimizing VTE prophylaxis for laparotomy and laparoscopy. Oral presentation at: 9th Communities of Practice Fall Forum; 2015 November 6-7; Montreal, Canada

-Tagalakis V, Douketis J. Bridging: Is there still an indication? Oral presentation at: Quebec

Society of Vascular Sciences, 15th Annual Convention; 2015 November 21; Montreal, Canada

-Venous thrombosis and subsequent risk of cancer: Why? By how much? In whom? And can anything be done? Oral presentation at: Medical Grand Rounds, Sacré Coeur Hospital; 2015 September 23; Montreal, Canada

-Klil-Drori A*, Coulombe J, Suissa S, Tagalakis V. Extended durations of anticoagulation and mortality following incident venous thromboembolism in the Q-VTE cohort. Oral presentation at: ISTH 2015 Congress and 61st Annual SSC Meeting; 2015 June 25; Toronto, Canada

-Carrier M, Lazo-Langner A, Shivakumar S, Tagalakis V, Zarychanski R, Solymoss S, Routhier N, Douketis J, Danovitch K, Lee AY, Le Gal G, Wells PS, Ramsay T, Coyle D, Chagnon I, Kassam Z, Taves D, Rodger MA, Tao H, SOME investigators. Screening for Occult Malignancy in Patient with unprovoked venous thromboembolism: an open randomized controlled trial using a comprehensive abdomen/pelvis computed tomography (SOME trial). Oral presentation at: ISTH 2015 Congress and 61st Annual SSC Meeting; 2015 June 22; Toronto, Canada

International

-Ihaddadene R, Corsi DJ, Lazo-Langner A, Shivakumar S, Tagalakis V, Zarychanski R, Solymoss S, Routhier N, Douketis JD, Carrier M. Risk Factors Predictive of Occult Cancer Detection in Patients with Unprovoked Venous Thromboembolism. Oral presentation at: the 57th ASH Annual Meeting and Exposition; 2015 December 5-8; Orlando, Florida

-Thromboprophylaxis in Critical Patients and at Risk Populations. Oral presentation at: the Critical Care Symposium; 2015 May 13-14; Santiago, Chile

Trudeau, Luc

National

-McGill Thursday evening learning series; When to consider investigation of Secondary Hypertension

-GMF Stillview; Diabetes and Metabolic Syndrome: targeting lipid abnormalities

-Nursing Grand Rounds at the Jewish Rehabilitation Hospital: When to consider investigation of Secondary Hypertension

-Monteregie Fridays: How to Approach Residual Risk in the Treatment of Dyslipidemia

-3rd Annual McGill University CME Cruise (hypertension & lipids)

-Montreal West Island : Santé de la femme et maladie thrombo-embolique

-Amos, QC : Update in Hypertension. Family physicians, medical students, residents and pharmacists

- Satellite Symposium on the role of single-pill combination (Annual meeting of Hypertension Canada), Toronto, ON:

- Diabetes Clinic: Proper BP measurement and the appropriate treatment of BP in diabetes, Verdun (QC)

-Breakfast of Champions: Knowledge Translation. Moderator of a workshop at Annual Meeting of Hypertension Canada

- Ste-Agathe GMF: Impact of the Renin-angiotensin Blockade

4. **Partnerships:** None to report

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

Hoffer, L. John was inducted into Orthomolecular Medicine Hall of Fame, International Society for Orthomolecular Medicine, Toronto, ON

Dr. Ernesto L. Schiffrin received the CSCI 2015 Distinguished Scientist Lecture and Award, one of the most prestigious honors bestowed by the Canadian Society for Clinical Research (CSCI), for his significant contributions to new knowledge, his expertise, innovation and research endeavors in hypertension. As the winner of the 2015 Distinguished Scientist Lecture and Award, Dr. Schiffrin presented on aspects of his research at the 2015 Annual CSCI congress in Toronto.

Dr. **Ernesto L. Schiffrin** received a seven-year Foundation grant funded by CIHR from its first live pilot foundation scheme for his research project entitled “Vascular remodeling in hypertension and cardiometabolic disease: from mice to humans” as Principal Investigator starting July 1, 2015 ending June 30, 2022 for a total amount of \$3,164,111.

Dr. Susan R. Kahn also received a seven-year Foundation grant funded by CIHR for her research project entitled “Improving long-term outcomes after venous thromboembolism (VTE)” as Principal Investigator starting July 1, 2015 ending June 30, 2022 for a total amount of \$2,050,824.

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

Dr Beth Cummings was selected as the 2015 recipient of the Medical Council of Canada W. Dale Dauphinee Fellowship to further her studies in assessment! She will investigate how, why and when benefits of longitudinal integrated curricula are threatened by misalignment between assessment practices and desired curricular outcomes.

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

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'Ile de Montreal

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.

Hoffer, Leonard J.

2015: Lotte & John Hecht Memorial Foundation: Open clinical trial to validate a short-term vitamin D loading and maintenance dose protocol in people with advanced lung cancer

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)

Peer-Reviewed Grants

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)/ Anderson A/ Berry R/ Camlioglu E/Cushman M/ Douketis J/ Emed J/ Filion K/ Galanaud J-P/ Gandara E/ Garg A/ Geerts W/ Ginsberg J/ Guidon E/ Kearon C/ Kovacs M/ Lazo-Langner A/ Morris M/ Prandoni P/ Ramsay T/ Rodger M/ Roussin A/ Schulman S/ Shapiro S/ Shariff S/ Solymoss S/ Tagalakis V/ Wakefield T/ Wells P/ Wu C; \$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)/ Rodger M (Co-PI)/ Afilalo M/ Anderson D/ Bates S/ Blostein M/ Carrier M/ Castellucci L/ Chagnon I/ Chitsike R/ Conway E/ Crowther M/ De Witt/Hogg K/ Demers C/ Dolan S/ Douketis J/ Duffett L/ Emed J/ Fergusson D/ Gandara E/ Geerts W/ Ginsberg J/ Gonsalves C/ Grad R/ Gross P/ Guindon E/ Haynes B/ Hirsch A/ Iorio A/ Kassir J/ Kearon C/ Kovacs M/ Lang E/ Lazo-Langner A/ Le Gal G/ Lee A/ Levinson A/ Levy A/ Liaw P/ Lim W/ Linkins L-A/ Louzada M/ McLeod A/ Moodley O/ Pai M/

Pluye P/ Ramsay T/ Ray J/ Roussin A/ Routhier N/ Schulman S/ Selby R/
Shivakumar S/ Siegal D/ Smith R/ Solymoss S/ Tagalakis V/ Takach Lapner S/
Thavorn K/ Weitz J/ Wells P/ Wu C/ Zarychanski R; \$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)/ Anderson D/ De Wit K/ Kahn SR (co-applicant)/ Kearon C/ Ramsay T/ Rodger M/ Righini M/ Shivakumar S/ / Wells P; \$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 metaanalysis; Kahn SR (principal applicant)/ Geerts W/ Douketis J/ Emed J/ Filion K/ Morrison D/ Roussin A/ Tagalakis V (co-applicants); \$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)/ Comerota A/ Goldhaber S/ Hildebolt C/ 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)/ Afilalo M/ Bates S/ Carrier M/ Douketis JD/ Gafni A/ Hirsch A /Julian JA/ Kahn SR (co-applicant)/ Kovacs MJ/ Lang ES/ Lazo-Langner A/ Le Gal G/ Linkins L-A/ Rodger MA/ Schulman S/ Shivakumar SP/ Takach Lapner S/ Wells PS/ Wu CM ; \$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)/ Afilalo M/ Bates S/ Carrier M/ Douketis JD/ Gafni A/ Hirsch A /Julian JA/ Kahn SR (co-applicant)/ Kovacs MJ/ Lang ES/ Lazo-Langner A/ Le Gal G/ Linkins L-A/ Rodger MA/ Schulman S/ Shivakumar SP/ Wells PS/ Wu CM ; \$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)/ Kearon C/ Kovacs M / Ramsay T/ Rodger M ; \$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)/ Belzile E/ Bohm E/ Crowther M/ Dolan S/ Dunbar M/ Fisher W/ Gofton W/ Gross P/ Kahn SR (co-applicant)/ Kim P/ MacDonald S/ Murnaghan J/ Pelet S/ Vendittoli M-A; \$3,044,877
- 2015: Canadian Institutes of Health Research-Planning and Dissemination Grant– Institute Community Support. Development of a patient outcomes driven research priority through effective patient engagement within Canadian Venous Thromboembolism Clinical Trials and Outcomes Research (VECTOR) Network; Duffett L (PI)/ Kahn SR (co-applicant)/ Rodger M; \$25,000
- 2014-2015: Canadian Institutes of Health Research- Community Development Program: CanVECTOR VTE Network planning grant; Kahn SR (Principal Applicant); \$25,000
- 2012-2015: Heart and Stroke Foundation of Canada: The Management of Subsegmental Pulmonary Embolism: A Prospective Cohort Study; Carrier M (PI)/ Anderson D/ Auer R/ Dennie C/ Hirsch A/ Kahn SR (co-applicant)/ Kovacs M/ Le Gal G/ Pena Fernandez E/ Ramsay T/ Rodger M/ Schulman S/ Wells P; \$240,765
- 2012-2015: Canadian Institutes of Health Research: Randomized controlled trial of anticoagulation vs. placebo for a first symptomatic isolated distal deep-vein thrombosis (IDDVT): The CACTUS Trial (Compression stocking alone versus Anticoagulation for symptomatic Calf vein Thrombosis diagnosed by UltraSonography); Kahn SR (Principal Investigator)/ Carrier M (Co-PI)/ Galanaud J-P/ Ginsberg J/ Rodger M/ Schulman S/ Shapiro S/ Tagalakis V/ Wells P; \$460,462
- 2008-2015: National Institutes of Health/NHLBI: Pharmacomechanical catheter-directed thrombolysis for acute DVT- ATTRACT Trial (Data Coordinating Center); Kearon C (PI DCC) & Vedantham S (PI CCC)/ Cohen D/ Julian J/ Kahn SR (co-applicant)/ Mahoney E; \$1,700,038

Schiffrin, Ernesto L

Peer-reviewed Grants

- 2013-2019: Canada Research Chair in Vascular and Hypertension Research; \$1,400,000
- 2010-2015: CIHR MOP37917 " Endothelin, vascular inflammation and injury, and hypertension"; \$767,145
- 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

Grants and contracts from pharmaceutical industry:

2012-2015: Servier France: mRNA and microRNA in small arteries in hypertensive patients vs. hypertensive CKD patients; \$650,000

Tagalakis, Vicky

Peer-Reviewed Grants

2015-2022: Canadian Institutes of Health Research: “Statistical Methods in Pharmacoepidemiology and Perinatal Epidemiology” Platt (PI) / Ernst / Kramer / Moodie / Suissa / 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) / Afilalo / Anderson / Bates / Blostein / Carrier / Castellucci / Chagnon / Chitsike / Conway / Crowther / Hogg / Demers / Dolan / Douketis / Duffett / Emed / Fergusson / Esteban / Geerts / Ginsberg / Gonsalves / Grad / Gross / Guindon / Haynes / Hirsch / Iorio / Kassis / Kearon / Kovacs / Lang / Langlois / Lapner / LazoLangner / Le Gal / Levinson / Levy / Lee / Liaw / Lim / Linkins / Louzada / McLeod / Moodley / Pai / Pluye / Ramsay / Ray / Roussin / Routhier / Schulman / Selby / Shivakumar / Siegal / Smith / Solymoss / Tagalakis (Co-Investigator) / Thavorn / Weitz / Wells / Wu / Zarychanski; \$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) / Geerts / Douketis / Emed / Filion / Morrison / Roussin / 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 / Anderson / Kovacs / Louzada / Carrier / Rodger / Gross / Lee / Ramsay / Tagalakis (Co-Investigator); \$836,841

2012-2015: Canadian Institute of Health and Research: “Propensity scores and marginal structural models in drug safety research”, Platt (PI) / Dormuth / Ernst / Moodie / Suissa / Tagalakis (Co-Investigator); \$405,939

2012-2015: Canadian Institute of Health and Research: “Randomized controlled trial of anticoagulation vs. placebo for a first symptomatic isolated distal deep-vein thrombosis (IDDVT): The CACTUS-PTS Trial (Compression stocking alone versus

Anticoagulation for symptomatic Calf vein Thrombosis diagnosed by UltraSonography); Kahn (PI) / Carrier (Co-PI) / Galanaud / Ginsberg / Rodger / Schulman / Shapiro / Tagalakis (Co-Investigator) / Well; \$460,461

Personal Support Awards

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

2. Scholarly works published in the 2015 calendar year:

Cummings, Beth

--*Sabri N, Sun N-Z, **Cummings B**, Jayaraman D (2015). The Perceived Effect of Duty Hour Restrictions on Learning Opportunities in the Intensive Care Unit. Journal of Graduate Medical Education; 7(1): 48-52.

Lipes, Jed

--Spevack R, AL Shukairi M, Jayaraman D, Dankoff J, Rudski L, **Lipes J**. Point of care ultrasound and management of heart failure. Abstract. Critical Care Medicine. December 2015 - Volume 43 - Issue 12 - p 18 doi: 10.1097/01.ccm.0000473895.33731.1b

Hoffer, L John

--**Hoffer LJ**, Robitaille L, Zakarian R, Melnychuk D, Kavan P, Agulnik J, Cohen V, Small D, Miller WH Jr. High-dose intravenous vitamin C combined with cytotoxic chemotherapy in patients with advanced cancer: a phase I-II clinical trial. PLoS ONE 2015.10:e0120228

--**Hoffer LJ**, Bistran BR. Approach to the patient and differential diagnosis. IN: Bier D, ed. Nutrition for the Primary Care Provider. Basel: Karger, pp 87-93, 2015

--**Hoffer LJ**, Bistran BR. Energy deficit is clinically relevant for critically ill patients: Con! Intensive Care Med 41: 339-341, 2015

--Bistran BR, **Hoffer LJ**, Driscoll DF. Enteral and parenteral nutrition therapy. IN: Kasper DL, Fauci AS, Hauser SL, Longo DL, Jameson JL, Loscalzo J, eds. Harrison's Principles of Internal Medicine, 19 ed. McGraw Hill, Ch 98e p 465, 2015

Kahn, Susan R

--*Rabinovich A, *Cohen JM, Cushman M, **Kahn SR** for the BioSOX Investigators. Association between inflammation biomarkers, anatomical extent of deep venous thrombosis, and venous symptoms after deep venous thrombosis Journal of Vascular Surgery 2015 October, 3(4):347–353.e1.

--*Cohen JM, **Kahn SR**, Platt RW, Basso O, Evans RW, Kramer MS. Small for gestational age birth and maternal plasma antioxidant levels in midgestation: a nested case control study. BJOG2015 Sep;122(10):1313-1321.

- *Cohen JM, Kramer MS, Platt RW, Basso O, Evans RW, **Kahn SR**. The association between maternal antioxidant levels in midpregnancy and preeclampsia. *Am J Obstet Gynecol*. 2015 Nov;213(5):695.e1-695.e13.
- *Cohen JM, Beddaoui M, Kramer MS, Platt RW, Basso O, **Kahn SR**. Maternal antioxidant levels in pregnancy and preeclampsia or small for gestational age birth: A Systematic Review and Meta-Analysis. *PLoS One*. 2015 Aug 6;10(8):e0135192.
- *Rabinovich A, *Cohen JM, **Kahn SR**. Predictive value of markers of inflammation in the postthrombotic syndrome: a systematic review. *Inflammatory biomarkers and PTS. Thromb Res*. 2015 Jun;136:289–297.
- Lakoski SG, Savage PD, Berkman AM, Penalosa L, Crocker A, Ades PA, **Kahn SR**, Cushman M. The Safety and Efficacy of Early Initiation Exercise Training After Acute Venous Thromboembolism: A Randomized Clinical Trial. *J Thromb Haemost* 2015 Jul;13(7):1238-1244.
- *Rabinovich A, *Cohen JM, Cushman M, Wells PS, Rodger MA, Kovacs MJ, Anderson DR, Tagalakis V, Lazo-Langner A, Solymoss S, Miron MJ, Yeo E, Smith R, Schulman S, Kassis J, Kearon C, Chagnon I, Wong T, Demers C, Hanmiah R, Kaatz S, Selby R, Rathbun S, Desmarais S, Opatrny L, Ortel TL, Ginsberg JS, **Kahn SR**. Inflammation Markers and Their Trajectories after Deep Vein Thrombosis in relation to Risk of Postthrombotic Syndrome. *J Thromb Haemost* 2015 Mar;13(3):398-408.
- Kahn SR** and Shapiro S. Response. *Clin Trials* 2015 Apr;12(2):178.
- Kahn SR**, Shapiro S, Ginsberg J. Rebuttal to Partsch et al. "Pain relief by compression in acute DVT. A critique of Kahn et al." *Thromb Haemost* 2015;113:906. *Thromb Haemost*. 2015 Mar 30;113(4):907.
- Rodger MA, Hague WM, Kingdom J, **Kahn SR**, Wells PS. Dalteparin for pregnant women with thrombophilia - authors' reply. *Lancet*. 2015 Feb 21;385(9969):690.
- Rodger MA, Phillips P, **Kahn SR**, James AH, Konkle BA for the PROSPER Investigators. Low-molecular-weight heparin to prevent postpartum venous thromboembolism A pilot randomised placebo-controlled trial. *Thromb Haemost* 2015;113(1):212-216.
- *Galanaud J-Ph. and **Kahn SR**. Chapitre 12: Le syndrome post-thrombotique. La maladie veineuse chronique, pp. 171-181. Elsevier Masson (Ed.), 7 oct. 2015.
- *Galanaud J-P and **Kahn SR**. Chapitre 30: Traitement de la thrombose veineuse profonde. La compression élastique. La maladie thrombo-embolique veineuse, pp 265-271. Elsevier Masson (Ed.), 25 mars 2015.

Published Abstracts (Research posters or oral presentations at scientific meetings)

Kahn SR, Hirsch A, Beddaoui M, Akaberi A, Anderson D, Wells PS, Rodger M, Solymoss S, Kovacs MJ, Rudski L, Shimony A, Dennie C, Rush C, Geerts WH, Hernandez P, Aaron S,

Grantor JT. Dyspnea, Quality of Life and Walking Capacity during 1 Year Follow-up after a First Episode of Pulmonary Embolism: Results of the E.L.O.P.E. Study. Oral Presentation, 57th Annual Meeting of American Society of Hematology, December 5-8, 2015, Orlando, FL. Blood 2015;126(23):750.

-Kahn SR, Hirsch A, Beddaoui M, Akaberi A, Anderson D, Wells PS, Rodger M, Solymoss S, Kovacs MJ, Rudski L, Shimony A, Dennie C, Rush C, Geerts WH, Hernandez P, Aaron S, Grantor JT. "Post-Pulmonary Embolism Syndrome" after a First Episode of PE: Results of the E.L.O.P.E. Study. Oral Presentation, 57th Annual Meeting of American Society of Hematology, December 5-8, 2015, Orlando, FL. Blood 2015;126(23):650.

-Kahn SR, Hirsch A, Beddaoui M, Akaberi A, Anderson D, Wells PS, Rodger M, Solymoss S, Kovacs MJ, Rudski L, Shimony A, Dennie C, Rush C, Geerts WH, Hernandez P, Aaron S, Grantor JT. Brain Natriuretic Peptide, Troponin and D-Dimer Levels in Relation to Long-Term Functional Outcome after a First Episode of Pulmonary Embolism: Results from the E.L.O.P.E. Study. Oral Presentation, 57th Annual Meeting of American Society of Hematology, December 5-8, 2015, Orlando, FL. Blood 2015;126(23):649.

-Galanaud J-P, Bertoletti L, Prandoni P, Gallego P, Mastroiacovo D, Mazzolai L, Samperiz A, Rabah Y, Ruiz-Gimenez N, Zdraveska M, **Kahn SR**, Monreal M. Risk Factors for Venous Ulcer Following ACUTE Venous Thromboembolism: Results from the Riete Registry. Poster Presentation, 57th Annual Meeting of American Society of Hematology, December 5-8, 2015, Orlando, FL. Blood 2015;126(23):3548.

-Galanaud J-P, Sevestre M-A, Genty C, **Kahn SR**, Pernod G, Brisot D, Quéré I, Bosson J-L. Anatomical Predictors of Venous Thromboembolism Recurrence after Isolated Superficial Vein Thrombosis. Poster Presentation, 57th Annual Meeting of American Society of Hematology, December 5-8, 2015, Orlando, FL. Blood 2015;126(23):651.

-Lazo-Langner A, **Kahn SR**, Wells PS, Anderson D, Rodger M, Carrier M, Bosco AA, Kovacs J, Corpuz R, Kovacs MJ. A Prospective Cohort Study of Upper Extremity Deep Vein Thrombosis. Poster Presentation, 57th Annual Meeting of American Society of Hematology, December 5-8, 2015, Orlando, FL Blood 2015;126(23):893.

-Wells P, Fallah P, Kovacs MJ, Anderson D, **Kahn S**, Shah V, Kaatz S, Kearon C, Solymoss S, Keeling D, Zide R, Schulman S, Chagnon I, Rodriguez R, Corsi D and Rodger M. Accuracy of three clinical prediction tools for major bleeding in patients on extended oral anticoagulant for venous thromboembolism. XXV Congress of the International Society on Thrombosis and Haemostasis, June 20-25, 2015, Toronto, ON. Journal of Thrombosis and Haemostasis 13 (Suppl. 2) (2015) 1–997: Abstract # AS077.

-Righini M, Galanaud J-P, Guennevez H, Brisot D, Diard A, Faisse P, Barrelier M-T, Desnos CH, Jurus C, Pichot O, Martin M, Mazzolai L, Choquet C, Accassat S, Carrier M, Gal GL, Mermillod B, Laroche J-P, Bounameaux H, Perrier A, **Kahn S** and Quere I. Anticoagulant therapy for symptomatic distal deep vein thrombosis: the cactus randomized placebo controlled trial. XXV Congress of the International Society on Thrombosis and Haemostasis, June 20-25, 2015, Toronto, ON. Journal of Thrombosis and Haemostasis 13 (Suppl. 2) (2015) 1–997: Abstract # AS137.

-Rodger MA, Kovacs M, Gal GL, Scarvelis D, **Kahn SR**, Anderson D and on behalf of Reverse Investigators. Long-term follow-up of a prospective cohort of unprovoked venous thromboembolism (VTE) patients off anticoagulants-risk stratification evaluation (REVERSE). XXV Congress of the International Society on Thrombosis and Haemostasis, June 20-25, 2015, Toronto, ON. Journal of Thrombosis and Haemostasis 13 (Suppl. 2) (2015) 1–997: Abstract # AS139.

-Utne K, Ghanima W, Sandset PM, **Kahn S** and Wik HS. Development and validation of a patient self-administered villalta scale for patient self-assessment of the post-thrombotic syndrome. Oral presentation, XXV Congress of the International Society on Thrombosis and Haemostasis, June 20-25, 2015, Toronto, ON. Journal of Thrombosis and Haemostasis 13 (Suppl. 2) (2015) 1–997: Abstract # OR072.

-Galanaud J-P, Ducruet T, **Kahn S** and on behalf of for the SOX trial investigators. Impact of primary venous insufficiency on the prevalence and risk of post-thrombotic syndrome. Oral presentation, XXV Congress of the International Society on Thrombosis and Haemostasis, June 20-25, 2015, Toronto, ON. Journal of Thrombosis and Haemostasis 13 (Suppl. 2) (2015) 1–997: Abstract # OR327.

-Ikesaka RT, **Kahn S**, Galanaud J-P, Vazquez FJ, Roche-Nagle G, Carrier M, Gal GL, Rodger M and Gandara E. Practice variation in the treatment of DVT and prevention of post thrombotic syndrome between internists and vascular surgeons: a Canadian survey of physician practices. Poster presentation, XXV Congress of the International Society on Thrombosis and Haemostasis, June 20-25, 2015, Toronto, ON. Journal of Thrombosis and Haemostasis 13 (Suppl. 2) (2015) 1–997: Abstract # PO467-MON.

-Ikesaka R, **Kahn S**, Galanaud J-P, Vazquez F, Roche-Nagle G, Carrier M, Gal G, Rodger M and Gandara E. Is post thrombotic syndrome perceived to be a clinically relevant outcome?: A survey of physician priorities. Poster presentation, XXV Congress of the International Society on Thrombosis and Haemostasis, June 20-25, 2015, Toronto, ON. Journal of Thrombosis and Haemostasis 13 (Suppl. 2) (2015) 1–997: Abstract # PO473-MON.

Schiffrin, Ernesto L.

--Perry CG, Freel EM, O’Dwyer P, **Schiffrin EL**, Jennings GL, Dominiczak AF, De Buyzere M. Clinico-Pathological Conference: A rare cause of severe hypertension in a young woman.

Hypertension 2015;65:21-24. doi:10.1161/HYPERTENSIONAHA.114.04619. PMID: 25385763

--Ferrario CM, **Schiffrin EL**. Translational Success Stories: Role of Mineralocorticoid Receptor Antagonists in Cardiovascular Disease. *Circ Res.* 2015; 116: 206-213. doi: 10.1161/CIRCRESAHA.116.302706. PMID: 25552697.

--Blom K, Farina S, Gomez Y-H, Campbell NRC, Hemmelgarn B, Cloutier L, Mackay DW, Dawes M, Tobe SW, Bolli P, Gelfer M, Mclean D, Bartlett G, Joseph L, Featherstone R, **Schiffrin EL**, Daskalopoulou SS. MEthods of ASsessing blood pressUre: identifying thReshold and target valuEs (MeasureBP): a Study Protocol. *Current Hypert Reports Curr Hypertens Rep.* 2015 Apr;17(4):533. Doi: 10.1007/s11906-015-0533-5. PMID: 25790798.

--Daskalopoulou SS, Rabi DM, Zarnke KB, Dasgupta K, Nerenberg K, Cloutier L, Gelfer M, Lamarre-Cliche M, Milot A, Bolli P, McKay DW, Tremblay G, McLean D, Tobe SW, Ruzicka M, Burns KD, Vallée M, Ramesh Prasad GV, Lebel M, Feldman RD, Selby P, Pipe A, **Schiffrin EL**, McFarlane PA, Oh P, Hegele RA, Khara M, Wilson TW, Brian Penner S, Burgess E, Herman RJ, Bacon SL, Rabkin SW, Gilbert RE, Campbell TS, Grover S, Honos G, Lindsay P, Hill MD, Coutts SB, Gubitz G, Campbell NR, Moe GW, Howlett JG, Boulanger JM, Prebtani A, Larochelle P, Leiter LA, Jones C, Ogilvie RI, Woo V, Kaczorowski J, Trudeau L, Petrella RJ, Hiremath S, Stone JA, Drouin D, Lavoie KL, Hamet P, Fodor G, Grégoire JC, Fournier A, Lewanczuk R, Dresser GK, Sharma M, Reid D, Benoit G, Feber J, Harris KC, Poirier L, Padwal RS. The 2015 Canadian Hypertension Education Program recommendations for blood pressure measurement, diagnosis, assessment of risk, prevention, and treatment of hypertension. *Can J Cardiol.* 2015 May;31(5):549-68. doi: 10.1016/j.cjca.2015.02.016. Review. PMID: 25936483.

--Rautureau Y, Coelho SC, Fraulob-Aquino JC, Huo K-G, Rehman A, Offermanns S, Paradis P, **Schiffrin EL**. Inducible human endothelin-1 overexpression in endothelium raises blood pressure via endothelin type A receptors. *Hypertension.* 2015; 66:347-355. DOI: 10.1161/HYPERTENSIONAHA.115.05168. PMID: 2610134.

--Townsend R, Wilkinson I, **Schiffrin EL**, Avolio A, Bradley TJ, Chirinos JA, Cockcroft J, Ellison D, Heffernan K, Lakatta EG, McEniery C, Mitchell GF, Najjar S, Nichols W, Urbina E, Weber T; on behalf of the American Heart Association Council on Hypertension. Recommendations for Improving and Standardizing Vascular Research on Arterial Stiffness. A Scientific Statement of the American Heart Association. *Hypertension.* 2015;66:698-722. DOI: 10.1161/HYP.0000000000000033. PMID: 26160955

--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. PMID: 2663021.

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--**Schiffrin EL**. Mechanisms of remodelling of small arteries, antihypertensive therapy and the immune system in hypertension. *Clinical & Investigative Medicine*, [S.l.], p. E394-E402, dec. 2015. ISSN 1488-2353. Available at: <<http://cimonline.ca/index.php/cim/article/view/26202>>. Date accessed: 06 dec. 2015.

--**Schiffrin EL**, Calhoun D, Flack JM, Ito S, Webb RW. A message from the new editorial team at the American Journal of Hypertension. *Amer J Hypert.* 2016;29:1. doi:10.1093/ajh/hpv173

--**Schiffrin EL**, Calhoun D, Flack JM. SPRINT proves that lower is better for non diabetic high risk patients, but at a price. *Amer J Hypert.* 2016;29;2-4. doi:10.1093/ajh/hpv190. PMID: 26597221.

--Savoia C, **Schiffrin EL**. Vascular changes in the microcirculation: arterial remodeling and capillary rarefaction. Editors: Adel Barbari, Giuseppe Mancia. Springer International Publishing Switzerland 2015; pp 69-79. DOI 10.1007/978-3-31914556-3. ISBN 978-3-319-14556-3, © 2015

Schwartz, Blair

--**Schwartz BC**, Frenette C, Lee TC, Green L, Jayaraman D. (2015) Novel low resource intervention reduces urinary catheter use and associated urinary tract infections: role of outcome measure bias? *Am J Infect Control* 43(4):348-53

Tagalakis, Vicky

--Carrier M, Lazo-Langner A, Shivakumar S, **Tagalakis V**, Zarychanski R, Solymoss S, Routhier N, Douketis J, Danovitch K, Lee AY, Le Gal G, Wells PS, Corsi DJ, Ramsay T, Coyle D, Chagnon I, Kassam Z, Tao H, Rodger MA; SOME Investigators. Screening for occult cancer in unprovoked venous thromboembolism. *The New England Journal of Medicine* 2015. [Epub ahead of print]

--Easaw JC, Shea-Budgell MA, Wu CMJ, Czaykowski PM, Kassis J, Kuehl B, Lim HJ, MacNeil M, Martinusen D, McFarlane PA, Meek E, Moodley O, Shivakumar S, **Tagalakis V**, Welch S, Kavan P. Canadian consensus recommendations on the management of venous thromboembolism in patients with cancer. Part 2: treatment. *Current Oncology* 2015; 22(2):144-155

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--Klil-Drori A, Yin H, **Tagalakis V**, Aprikian A, Azoulay L. Androgen deprivation therapy for prostate cancer and the risk of venous thromboembolism. *European Urology* 2015. [Epub ahead of print]

--Leung Yinko SS, Pelletier R, Behlouli H, Bacon SL, Karp I, Thanassoulis G, Daskalopoulou SS, Eisenberg MJ, Khan NA, Lavoie KL, Pilote L; GENESIS-PRAXY investigators (**Tagalakis V**). Potential factors associated with fruit and vegetable intake after premature acute coronary syndrome: a prospective cohort study. *International Journal of Food Sciences and Nutrition* 2015; 1-7 [Epub ahead of print]

--Rabinovich A, Cohen JM, Cushman M, Wells PS, Rodger MA, Kovacs MJ, Anderson DR, **Tagalakis V**, Lazo-Langner A, Solymoss S, Miron MJ, Yeo E, Smith R, Schulman S, Kassis J, Kearon C, Chagnon I, Wong T, Demers C, Hanmiah R, Kaatz S, Selby R, Rathbun S, Desmarais S, Opatrny L, Ortel TL, Ginsberg JS, Kahn SR. Inflammation Markers and Their Trajectories after Deep Vein Thrombosis in relation to Risk of Postthrombotic Syndrome. *Journal of Thrombosis and Haemostasis* 2015; 13(3):398-408

Published Abstracts (Research posters or oral presentations at scientific meetings)

-Ihaddadene R, Corsi DJ, Lazo-Langner A, Shivakumar S, **Tagalakis V**, Zarychanski R, Solymoss S, Routhier N, Douketis JD, Carrier M. Risk Factors Predictive of Occult Cancer Detection in Patients with Unprovoked Venous Thromboembolism. *Blood* 2015; 126(23):625.

-Klil-Drori A, Yin H, **Tagalakis V**, Aprikian AG, Azoulay L. Androgen deprivation therapy use and the risk of venous thromboembolism. *Journal of Clinical Oncology* 2015; 33:e16131.

-Ma K, Wells P, Guzman C, Anderson D, Blostein M, Hirsch A, Kovacs MJ, Lazo Langner A, Rodger M, **Tagalakis V**, **Kahn S**. Multicenter prospective study of treatment and risk factors for unusual site thrombosis: trust registry. *Journal of Thrombosis and Haemostasis* 2015; 13(S2)

-**Tagalakis V**, Tulchinsky M, Lazo-Langner A, Suissa S, Le Gal G. Radiation and breast cancer risk in women diagnosed with pulmonary embolism: CT pulmonary angiography versus ventilation-perfusion scanning. *Journal of Thrombosis and Haemostasis* 2015; 13(S2)

-Klil-Drori A*, Coulombe J, Suissa S, **Tagalakis V**. Extended durations of anticoagulation and mortality following incident venous thromboembolism in the Q-VTE cohort. *Journal of Thrombosis and Haemostasis* 2015; 13(S2)

Trudeau, Luc

--Daskalopoulou SS, Rabi DM, Zarnke KB, Dasgupta K, **Trudeau L** et al for the Canadian Hypertension Education Program. The 2015 Canadian Hypertension Education Program Recommendations for Blood Pressure Measurement, Diagnosis, Assessment of Risk, Prevention, and Treatment of Hypertension. *Can J Cardiol.* (2015) 31:549-568.

--Johnson C, Thout SR, **Trudeau L**, Bacon SL, Padwal RS, Webster J, Campbell N. The Science of Salt: A Systematic Review of Clinical Salt Studies 2013 to 2014, *Journal of Clinical Hypertension.* (2015) 17:5:401–411

--Padwal RS, Townsend RR, **Trudeau L**, Hamilton PG, Gelfer M. Comparison of an in-pharmacy automated blood pressure kiosk to daytime ambulatory blood pressure in hypertensive subjects. (2015) 9:2:123–129

3. **Academic and community engagement service outside of McGill by individual members of the unit:** see above under Community Involvement

SECTION III – CONFIDENTIAL INFORMATION

1. **Consulting activities:**

Name of Faculty Member	Private Consults	Public Sector Consulting # of days	Other # of Days	# of Total 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

Rubin Becker, MD
Chief, Division of Internal Medicine