

Annual Report
Division of Internal Medicine
Department of Medicine - Jewish General Hospital
January 1 - December 31, 2014

SUMMARY

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.

1. Research and Publications:

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.

Secured grants for the Internal Medicine Division for the period 2013-2014 is \$1,295,058. Total research grants and awards are: Dr. John Hoffer, \$ 105,000 for his research in Vitamin C & D treatment, Dr. Susan Kahn, \$307,249 for her research in Thrombosis, Dr. Vicky Tagalakakis, \$2,475,037 for her research in Epidemiology & Venous Thrombosis and Dr. Schiffrin, \$2,248,357 for grants and Canada Research Chair in Vascular and Hypertension.

2. Teaching and learning (undergraduate and graduate)

Teaching Activities:

Clinical Teaching Unit: 4 weeks/year, Staff:10, Residents: 6, Students: 2; Drs. R. Becker, R. Bunea, M. Elizov, J. Raffoul, L. Trudeau, V. Tagalakakis, B. Cummings, S. Kahn, B. Schwartz, J. Lipes

Ambulatory Internal Medicine Clinics: 4 clinics/week, Staff: 10, Residents 20-25, Students: 8 Drs. R. Becker, R. Bunea, M. Elizov, B. Cummings, S. Kahn, J. Raffoul, L. Trudeau, V. Tagalakakis, J. Hoffer, J. Lipes, B. Schwartz

Consult Service: 7 day/wk, Staff: 6, Residents: 1, Fellows: 1; Drs. B. Cummings, M. Elizov, R. Bunea, J. Raffoul, L. Trudeau, V. Tagalakakis, B. Schwartz

Emergency Room/Medical Short Stay Unit: 7day/wk, Staff: 6, Residents: 6, Students: 4; Drs. R. Becker, R. Bunea, M. Elizov, B. Cummings, J. Raffoul, L. Trudeau, V. Tagalakakis, B. Schwartz

Core Lectures: 10 hrs/year: Staff: 6, Residents: 20-30; Drs. R. Becker, R. Bunea, M. Elizov, B. Cummings, S. Kahn, J. Raffoul, L. Trudeau, V. Tagalakakis, J. Hoffer, B. Schwartz, J. Lipes

Orals & Exams: 11 hrs/year Students: 16-20; Drs. R. Becker, R. Bunea, M. Elizov, B. Cummings, S. Kahn, J. Raffoul, L. Trudeau, V. Tagalakakis, J. Hoffer, B. Schwartz, J. Lipes

Professional Skills Tutorial Group: 48 hrs/year, Students: 16-20; Drs. M. Elizov, B.

Cummings, B. Schwartz, J. Lipes
Echocardiography Courses; Critical Care Fellowship, 8 hrs/year, 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

Clinical Activities:

Emergency Room/Medical Short Stay Unit/Consults: 8 weeks/yr: Drs. R. Becker, R. Bunea, M. Elizov, J. Raffoul, V. Tagalakis, L. Trudeau, B. Schwartz
Emergency Room/Medical Short Stay Unit/Consults: 2 weeks/yr: Drs. B. Cummings, S. Kahn
Nutritional Support Team Consultation: 16-20 weeks/year: Dr. J. Hoffer
Internal Medicine Out-Patient Residents Clinic: ½ clinic/week: Drs. R. Becker, R. Bunea, M. Elizov, J. Raffoul, V. Tagalakis, J. Hoffer, B. Cummings, L. Trudeau, B. Cummings, J. Lipes, B. Schwartz
Cardiovascular Prevention Center: 2 clinic/wk: Drs. E. Schiffrin, L. Trudeau
Resident's Hypertension Clinic: 2 clinic/wk: 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

3. Involvement in the community:

Elizov, M

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 first formal rotation in April 2014.

Hoffer, LJ

McGill

Body composition, bioenergetics, protein metabolism, obesity, appetite and eating, starvation, anorexia and cachexia, and vitamin and mineral nutrition: 7 hours of lectures in Block D of First Year Medicine (Fundamentals of Medicine and Dentistry) January 3, Feb 3, 4 and 5, 2014

Vitamins: who needs them? Medical Grand Rounds, Jewish General Hospital, Montreal, January 13, 2014

Antioxidant Defenses: Non-enzymatic. Departments of Neurology, Neurosurgery and Experimental Medicine Course 531-550B: Free Radical Biomedicine. January 20, 2014

Diabetes mellitus. Departments of Neurology, Neurosurgery and Experimental Course 531-550B: Free Radical Biomedicine. March 24, 2014

An interesting case of hypomagnesemia, with lessons for diagnosis and management. Internal Medicine Academic Rounds, Jewish General Hospital, April 10, 2014

Nutritional issues in family medicine. Herzl Family Practice Centre CME rounds, September 30, 2014.

Evidence-based nutrition. Faculties of Science and Agricultural and Environmental Sciences Course 450, Research methods in human nutrition, November 5, 2014

National

Vitamins: who needs them? Current knowledge and recent research. Canadian Diabetes Association 17th Professional Conference, Winnipeg, MN: October 23, 2014.

Appropriate protein provision in critical illness. New York-Long Island Society for Parenteral and Enteral Nutrition Annual Fall Conference, Plainview, Long Island, NY: October 30, 2014

Kahn, SR

Thrombosis and Women's Health. Family Medicine Forum Conference. Quebec, QC, November 14, 2014.

CIHR-funded Café Scientifique: Lots about clots for grandmothers, mothers and daughters. Moderator for public awareness evening held at Java U Café, March 20, 2014.

McGill

The SOX Trial and beyond. MUHC Clinical Epidemiology Rounds, MUHC. Montreal, November 13, 2014.

Surgical thromboprophylaxis. McGill GIM Fellow rounds, JGH. Montreal, September 16, 2014.

Challenges of performing placebo-controlled device trials. Lady Davis Institute Annual Research Day. Montreal, May 30, 2014.

Cancer-associated thrombosis. St Mary's Hospital Grand Rounds. Montreal, May 16, 2014

The SOX Trial. Lady Davis Institute PI Rounds. Montreal, May 14, 2014.

National

Duration of Anticoagulation for VTE. Thrombosis and Anticoagulation Newfoundland and Labrador, Inaugural Meeting. St John's NFLD, September 13, 2014.

Cancer and thrombosis. Thrombosis and Anticoagulation Newfoundland and Labrador, Inaugural Meeting. St John's NFLD, September 13, 2014.

Management of Post Thrombotic Syndrome. Thrombosis and Anticoagulation Newfoundland and Labrador, Inaugural Meeting. St John's NFLD, September 12, 2014.

Cancer Associated Thrombosis. Hematology Grand Rounds, Royal University Hospital, University of Saskatchewan. Saskatoon, SK, March 27, 2014.

Topics in Thrombosis. Hematology Round Table lunch, Royal University Hospital, University of Saskatchewan. Saskatoon, SK, March 27, 2014.

Management of VTE in pregnancy. Obstetrics and Gynecology Grand Rounds, Regina General Hospital. Regina, SK, March 26, 2014.

The post-thrombotic syndrome: A management update. Cardiology Grand Rounds, Regina General Hospital. Regina, SK, March 26, 2014.

Cancer Associated Thrombosis. Presented to Saskatchewan Cancer Agency. Regina, SK, March 26, 2014.

National Webinar, Thrombosis Canada: Evolution in Thrombosis Management: Clinical Challenges in the Treatment of Venous Thromboembolism. March 4, 2014 and March 24, 2014 (presented twice).

Grant application strategies with a focus on RCTs. Emergency Medicine Research Rounds. Foothills Medical Cancer Center. University of Calgary. Calgary, AB, February 6th, 2014.

Thrombolytic approaches to acute DVT. Emergency Medicine Research Rounds. Foothills Medical Cancer Center. University of Calgary. Calgary, AB, February 6th, 2014.

Prevention of VTE in surgical patients, and management of Cancer associated thrombosis. Gynecology-Oncology Grand Rounds, University of Calgary. Calgary, AB, February 5th, 2014.

Cancer associated thrombosis. Oncology Grand Rounds. Tom Baker Cancer Centre, University of Calgary. Calgary, AB, February 5th, 2014.

The VECTOR collaborative research group: Short and long-term goals. CIHR Institute of Circulatory and Respiratory Health (ICRH), 56th Institute Advisory Board Meeting, Gatineau, QC. January 17, 2014.

International

Research update on the post-thrombotic syndrome. Penn-CHOP Blood Center Seminar Series, University of Pennsylvania. Philadelphia, PA, December 3, 2014.

Predictors of post-thrombotic syndrome after DVT: Which patients will have problems. VEITH symposium 2014-41st Annual Symposium on Vascular and Endovascular Issues. New York, NY, November 19, 2014.

The SOX Trial: Challenges and rewards. Anticoagulation in Practice Conference 2014. Birmingham, UK, June 6, 2014.

Post-Thrombotic Syndrome: What to do post-SOX trial? Thrombosis and Hemostasis Summit of North America (THSNA). Chicago, IL, April 11, 2014.

Schiffrin, EL

National

Has the Time Come for Standardized Global Guidelines: Can One Size Fit All? Invited lecture in the session “Guidelines and sidelines”, American College of Cardiology Annual Meeting, Washington DC, March 29, 2014.

Hypertension--Do We Really Need More Guidelines for HTN After All These Years? Invited lecture in the session “Guidelines and sidelines”, American College of Cardiology Annual Meeting, Washington DC, March 29, 2014.

Small arteries in hypertension and cardiovascular disease. Invited keynote speaker at NIH Workshop on “Small arteries, big health problems”. Bethesda, MD, September 19, 2014.

Aldosterone and immune mechanisms in hypertension and vascular disease. Invited lecture at Cardiovascular Seminar, American Heart Association Scientific Sessions, Chicago, IL, November 19, 2014.

International

What format for guidelines for hypertension? Invited Lecture, Spring Scientific Meeting of the Korean Society of Hypertension, Seoul, Korea, May 9, 2014.

Immune mechanisms in hypertension. Invited State-of-the-Art Lecture, Spring Scientific Meeting of the Korean Society of Hypertension, Seoul, Korea, May 9, 2014.

Resistant Hypertension. Invited lecture, The 1st Vietnam Congress of Hypertension, Hue City, Vietnam, May 17th, 2014.

Pharmacologic Treatment of Hypertension. Invited lecture, The 1st Vietnam Congress of Hypertension, Hue City, Vietnam, May 17th, 2014.

Immune mechanisms in hypertension. Renin-angiotensin-aldosterone official satellite symposium of the 2014 ESH-ISH Scientific Meeting, Santorini, Greece, June 11, 2014.

Immune mechanisms of vascular remodeling in hypertension. Presidential Lecture, 2014 Joint Scientific Meeting of the European Society of Hypertension and the International Society of Hypertension, Athens, Greece, June 14, 2014.

Immune mechanisms in hypertension. Invited lecture, 1st International Symposium on Autonomic neural regulation of the immune system: implications for hypertension and cardiovascular disease, Sao Paulo, Brazil, August 12, 2014.

Endothelin-1 in hypertension, atherosclerosis and chronic kidney disease. Grand Rounds at the Heart Institute of the University of Sao Paulo, Brazil, August 13, 2014.

Vascular actions of aldosterone. Invited Lecture, Interamerican Society of Hypertension Scientific Meeting, Salvador de Bahia, Brazil, August 15, 2014.

Schwartz, BC

McGill

Introduction to Cervical Spine Immobilization, JGH Internal Medicine Academic Day January 9, 2014

Patient Safety: Accreditation Buzzword or Genuine Research Domain? McGill Combined Critical Care Rounds, March 7, 2014

Respiratory Failure for the Internist, JGH Division of Internal Medicine Rounds, March 20, 2014

Bill 52: Limits of Conscientious Objections, JGH Medical Ethics Rounds, May, 2014
Quality Improvement: A Research Primer, McGill General Internal Medicine Clinical Scholar's Program, May 13, 2014

Patient Safety: An Overview, Saint Mary's Hospital Medical Grand Rounds, May 15, 2014

Managing the Critically Ill Patient, McGill Aviation Medicine Course, June 21, 2014

Medical Emergencies in the Flying "Mom-To-Be", McGill Aviation Medicine Course. June 21st, 2014

Diagnosis & Management of Diabetic Emergencies, JGH Internal Medicine Academic Day, July 9, 2014

Intraosseous Vascular Access, JGH Internal Medicine Academic Day, July 17, 2014

Management of In-Hospital Cardiac Arrest, JGH Internal Medicine Academic Day, July 26th, 2014

Preventing Hospital Readmissions: A Virtual Solution for a virtual problem, JGH

Division of Internal Medicine Rounds, October 30, 2014

The Reducing Inappropriate Pulmonary Embolism Studies (RIPES) Project, International Forum on Quality & Safety in Healthcare, Paris, France April 8, 2014

Tagalakis, V

McGill

Tagalakis V. The role of the new oral anticoagulants for the treatment of venous thromboembolism: practical considerations. Oral presentation at Department of General Medicine, The Douglas Mental Health University Institute, McGill University, Montreal, Canada, 2014.

Tagalakis V. Pregnancy and Thrombosis Issues. Oral presentation at: Jewish General Hospital Medical Grand Rounds, Jewish General Hospital, McGill University, Montreal, Canada, 2014.

Tagalakis V. Venous thrombosis and subsequent risk of cancer: Why? By how much? In whom? And can anything be done? Oral presentation at: Centre of Clinical Epidemiology, Jewish General Hospital, McGill University, Montreal, Canada, 2014.

National

Tagalakis V. Cancer and thrombosis symposium. Oral presentation at: L'atelier scientifique: L'oncologie pour l'interniste: notre rôle au-delà de la thérapie - Château Frontenac; 2014 October; Quebec city, Quebec.

Austin A, Pelletier R, Rabi D, Behloul H, Pilote L, Tagalakis V. Factors associated with study completion in patients with premature acute coronary syndrome. Oral presentation at: Canadian Cardiovascular Congress; 2014 October; Vancouver, British Columbia.

Leung Yinko SSL, Pelletier R, Behloul H, Lavoie KL, Bacon SL, Daskalopoulou SS, Thanassoulis G, Karp I, Eisenberg MJ, Pilote L, Tagalakis V for the GENESIS-PRAXY Investigators. Barriers to improvements in fruit and vegetable intake after premature acute coronary syndrome: what is the role of dietary counselling and patient characteristics? Oral presentation at: Canadian Cardiovascular Congress; 2014 October; Vancouver, British Columbia.

Pelletier R, Humphries K, Khan N, Eisenberg MJ, Cox J, Pilote L, Tagalakis V for the GENESIS-PRAXY Investigators. Gender, sex, and outcomes in patients with premature acute coronary syndrome. Oral presentation at: Canadian Cardiovascular Congress; 2014 October; Vancouver, British Columbia.

International

Tagalakis V. Use of statins and the risk of recurrent venous thromboembolism. Oral presentation at the European Society of Cardiology Congress (ESC); 2014 August 30-September 3; Barcelona, Spain.

Xu C*, Ciampi A, Greenwood CMT, Tagalakis V. Clustering of longitudinal data using mixture of extended linear mixed-effect models. Oral presentation at: Joint Statistical Meetings; 2014 August 2-7; Boston Massachusetts, USA.

4. Partnerships: None to report

5. Honours, awards, and prizes:

Dr. Joseph Raffoul was awarded The Award for Medical Excellence. This was awarded to Dr. Raffoul for his exceptional care for patients, extensive knowledge of medicine, valued teaching, superior abilities and accessibility to colleagues throughout the hospital.

Dr. Blair Schwartz was awarded 2014 “Teacher of the Year” at the Jewish General Hospital, Core Internal Medicine Program.

6. Milestones:

7. Fundraising: None to report.

SECTION 1 – DIVISION STATUS

1. Mission and objectives of the Division

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

- Dr. Rubin Becker, Chief, Division of Internal Medicine, Jewish General Hospital; Associate Professor of Medicine, McGill University
- Dr. Ruxandra Bunea, Director Postgraduate Education, Jewish General Hospital; Assistant Professor McGill University
- Dr. Vicky Tagalakis: Department of Medicine, Jewish General Hospital, Program Director for Internal Medicine Fellowship Training Program, Associate Professor, McGill University
- Dr. Susan Kahn: Director, Thrombosis Clinic, Jewish General Hospital; Associate Co-Director, Lady Davis Institute for Medical Research McGill University, Program Director, Thrombosis Fellowship, McGill University, Full Professor of Medicine with Tenure, McGill University,
- Dr. Beth Cummings: Director, Undergraduate Medical Education, Jewish General Hospital; Clerkship Program Chair and Assistant Professor, McGill University
- Dr. Ernesto Schiffrin: 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; Professor and Vice-Chair (Research), Department of Medicine, McGill

University.

- Dr. Joseph Raffoul: CTU Director and Medical Gatekeeper Jewish General Hospital; Assistant Professor of Medicine, McGill University, Medical Director, Mount Sinai.
- Dr. John Leonard Hoffer: Professor of Medicine, McGill University
- Dr. Michelle Elizov: McGill Representative, Board of Directors, Canadian Association of Medical Education; Director of Medical Education Elective Program and Co-Director of Medical Education Fellowship Program, Centre for Medical Education, and Associate Professor of Medicine, McGill University
- Dr. Luc Trudeau: Director of Professional Services; Jewish Rehabilitation Hospital, Assistant Professor, McGill University
- Dr. Blair Schwartz: Assistant Professor, McGill University
- Dr. Jed Lipes: Assistant Professor, 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

SECTION II – PUBLICATIONS, AND SERVICES OUTSIDE MCGILL

1. Grants and awards received

Research, Grants & Awards: See Annex 1

2. Scholarly works published in the 2014 calendar year: ALL UPDATES

Elizov, M

--**Elizov M** Are mentors born or made? Medical Education 2014: Vol 48

Hoffer, John Leonard

--**Hoffer, LJ.** Orthomolecular psychiatry: What would Abrah Hoffer do? J Orthomolecular Med 29:54-66, 2014

--**Hoffer LJ, Bisterian BR.** What is the vest nutritional support for critically ill patients? Hepatobiliary Surg Nutr 3:172-174, 2014

Kahn, Susan

--**Kahn SR, Shapiro S, Ducruet T, Wells PS, Rodger MA, Kovacs MJ, Anderson D, Tagalakis V, Morrison DR, 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, Galanaud JP, Ginsberg JS.** Graduated compression stockings to treat acute leg pain associated with proximal DVT. A randomised controlled trial. Thrombosis and Haemostasis 2014; 112(6):1137-41.

--**Kahn SR**, Shapiro S, Wells PS, Rodger MA, Kovacs MJ, Anderson DR, Tagalakis V, Houweling AH, Ducruet T, Holcroft C, Johri M, 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; for the SOX trial investigators. Compression stockings to prevent post-thrombotic syndrome: a randomised placebo-controlled trial. *Lancet* 2014; 383(9920):880-8.

--Rodger MA, Hague WM, Kingdom J, **Kahn SR**, Karovitch A, Sermer M, Clement AM, Coat S, Chan WS, Said J, Rey E, Robinson S, Khurana R, Demers C, Kovacs MJ, Solymoss S, Hinshaw K, Dwyer J, Smith G, McDonald S, Newstead-Angel J, McLeod A, Khandelwal M, Silver RM, Le Gal G, Greer IA, Keely E, Rosene-Montella K, Walker M, Wells PS; TIPPS Investigators. Antepartum dalteparin versus no antepartum dalteparin for the prevention of pregnancy complications in pregnant women with thrombophilia (TIPPS): a multinational open-label randomised trial. *Lancet*. 2014 Nov 8;384(9955):1673-83.

--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. *ThrombHaemost*2014 Nov 6;113(1).

--**Kahn SR**, Comerota AJ, Cushman M, Evans NS, Ginsberg JS, Goldenberg NA, Gupta DK, Prandoni P, Vedantham S, Walsh ME, Weitz JI; on behalf of the American Heart Association Council on Peripheral Vascular Disease, Council on Clinical Cardiology, and Council on Cardiovascular and Stroke Nursing. The Post-Thrombotic Syndrome: Evidence-based Prevention, Diagnosis, and Treatment Strategies A Scientific Statement from the American Heart Association. *Circulation* 2014 Oct 28;130(18):1636-1661.

--Chitsike RS, **Kahn SR**, Rodger MA; for the REVERSE investigators. Meta-Analysis to Assess the Quality of International Normalized Ratio Control and Associated Outcomes in Venous Thromboembolism Patients (letter). *Thromb Res* 2014 Sep 9. [Epub ahead of print].

--**Kahn SR**, Shapiro S, Ducruet T, Wells PS, Rodger MA, Kovacs MJ, Anderson DR, Tagalakis V, Houweling AH, Morrison DR, Solymoss S, Miron M-J, Yeo E, Smith R, Schulman S, Kassis J, Kearon C, Chagnon I, Wong T, Demers C, Hanmiah R, Kaatz S, Selby S, Rathbun S, Desmarais S, Opatrny L, Ortel TL, Galanaud J-P and Ginsberg JS. The effectiveness of graduated compression stockings to treat acute leg pain associated with proximal deep vein thrombosis: A randomized controlled trial. *ThrombHaemost*2014 Aug 28;112(6). [Epub ahead of print].

--Rodger MA, Hague WM, Kingdom J, **Kahn SR**, Karovitch A, Sermer M, Clement AM, Coat S, Chan WS, Said J, Rey E, Robinson S, Khurana R, Demers C, Kovacs MJ, Solymoss S, Hinshaw K, Dwyer J, Smith G, McDonald S, Newstead-Angel J, McLeod A, Khandelwal M, Silver RM, Le Gal G, Greer I, Keely E, Rosene-Montella K, Walker M, Wells PS for the TIPPS investigators. Antepartum dalteparin versus no antepartum

dalteparin for the prevention of pregnancy complications in pregnant women with thrombophilia (TIPPS): a multinational open-label randomised trial. *Lancet* 2014 Jul 24. pii: S0140-6736(14)60793-5 [Epub ahead of print].

--Galanaud J-P and **Kahn SR**. Post-thrombotic syndrome: a 2014 update. *Current Opinions in Cardiology* 2014 Nov;29(6):514-519.

--Méan M, Limacher A, **Kahn SR**, Aujesky D. The VEINES-QOL/Sym questionnaire is a reliable and valid disease-specific quality of life measure for deep vein thrombosis in elderly patients. *Qual Life Res* 2014 Nov;23(9):2463-2471.

--*Ma K, Cohen E, **Kahn SR**. Venous thromboembolism in hospitalized patients: An updated analysis of missed opportunities for thromboprophylaxis at a university-affiliated tertiary care center. *Vascular Medicine* 2014 Oct; 19(5) 385–391.

--*Houweling AH, Shapiro S, Cohen JM, **Kahn SR**. Blinding Strategies in the Conduct and Reporting of a Randomized Placebo-Controlled Device Trial. *Clin Trials* 2014 Oct; 11(5) 547–552.

--Couturaud F, Leroyer C, Tromeur C, Julian JA, **Kahn SR**, Ginsberg JS, Wells PS, Douketis JD, Mottier D, Kearon C. Factors that predict risk of thrombosis in relatives of patients with venous thromboembolism. *Blood* 2014 Sep 25;124(13):2124-2130.

--Bharath V, **Kahn SR**, Lazo-Langner A. Genetic polymorphisms of vein wall remodeling in chronic venous disease: a narrative and systematic review. *Blood* 2014 Aug 21;124(8):1242-1250.

--Rabinovich A, **Kahn SR**. How to predict and diagnose postthrombotic syndrome. *Pol Arch Med Wewn.* 2014 Aug 7;124(7-8):410-416.

--**Kahn SR**, Shapiro S, Ginsberg JS; SOX trial investigators. Compression stockings to prevent post-thrombotic syndrome - Authors' reply. *Lancet* 2014 Jul 12;384(9938):130-131.

--**Kahn SR**, Houweling AH, Granton J, Rudski L, Dennie C, Hirsch A. Long-term outcomes after pulmonary embolism: Current knowledge and future research. *Blood Coag Fibrinolysis* 2014 July;25(5):407-415.

--Crowther M, Cook D, Guyatt G, Zytaruk N, McDonald E, Williamson D, Albert M, Dodek P, Finfer S, Vallance S, Heels-Ansdell D, McIntyre L, Mehta S, Lamontagne F, Muscedere J, Jacka M, Lesur O, Kutsiogiannis J, Friedrich J, Klinger JR, Qushmaq I, Burry L, Khwaja K, Sheppard JA, Warkentin TE (includes **Kahn SR**); PROTECT collaborators; Canadian Critical Care Trials Group; Australian and New Zealand Intensive Care Society Clinical Trials Group. Heparin-induced thrombocytopenia in the critically ill: interpreting the 4Ts test in a randomized trial. *J Crit Care* 2014 Jun;29(3):470.e7-15.

--*Rabinovich A, *Cohen J, **Kahn SR**. The predictive value of markers of fibrinolysis and endothelial dysfunction in the post thrombotic syndrome: A systematic review. *ThrombHaemost* 2014 Jun 2; 111(6):1031-1040.

--*Galanaud J-P, Sevestre M-A, Genty C, **Kahn SR**, Pernod G, Rolland C, Diard A, Dupas S, Jurus C, Diamand J-M, Quere I and Bosson J-L for the OPTIMEV-SFMV Investigators. Incidence and predictors of venous thromboembolism recurrence after a first isolated distal deep-vein thrombosis. *J Thromb Haemost* 2014 Apr;12(4):436-443.

--**Kahn SR**, Shapiro S, Wells PS, Rodger MA, Kovacs MJ, Anderson DR, Tagalakis V, Houweling AH, Ducruet T, Holcroft C, Johri M, Solymoss S, Miron M-J, Yeo E, Smith R, Schulman S, Kassis J, Kearon C, Chagnon I, Wong T, Demers C, Hanmiah R, Kaatz S, Selby S, Rathbun S, Desmarais S, Opatrny L, Ortel TL and Ginsberg JS for the SOX Trial investigators. Compression stockings to prevent post-thrombotic syndrome: A randomised placebo-controlled trial. *The Lancet* 2014 Mar8;383(9920):880-888. Selected for review by ACP Journal Club. *Ann Intern Med* 2014, 160: JC7.

--Rodger MA, Carrier M, Le Gal G, Martinelli I, Perna A, Rey E, de Vries JI, Gris JC; Low-Molecular-Weight Heparin for Placenta-Mediated Pregnancy Complications Study Group (includes **Kahn SR**). Meta-analysis of low-molecular-weight heparin to prevent recurrent placenta-mediated pregnancy complications. *Blood* 2014 Feb 6;123(6):822-828.

--*Rabinovich A, *Cohen JM, Prandoni P, **Kahn SR**. Association between Thrombophilia and the Post Thrombotic Syndrome: A Systematic Review and Meta-analysis. *J Thromb Haemost* 2014 Jan;12(1):14-23

--Schulman S, Kakkar AK, Goldhaber SZ, Schellong S, Eriksson H, Mismetti P, Vedel Christiansen A, Friedman J, Le Maulf F, Peter N, Kearon C; for the RE-COVER II trial investigators (includes Kahn S). Treatment of Acute Venous Thromboembolism with Dabigatran or Warfarin and Pooled Analysis. *Circulation* 2014; 129(7):764-772.

--*Galanaud JP and **Kahn SR**. Post-thrombotic Syndrome. In Hemostasis and Thrombosis: Practical Guidelines in Clinical Management, First Edition. Hussain I. Saba and Harold R. Roberts. © 2014 John Wiley & Sons, Ltd; pp. 186-196.

Schiffrin, Ernesto L.

--**Schiffrin EL**. The immune system: role in hypertension. *Can J Cardiol*. 2013;29(5):543-8. 2012 Aug 14. [Epub ahead of print] PMID: 22902155; doi.org/10.1016/j.cjca.2012.06.009.

--Bertagnolli M, Huyard F, Cloutier A, Anstey Z, Huot-Marchand J-E, Fallaha C, Paradis P, **Schiff rin EL**, deBlois D, Nuyt AM. Transient neonatal high oxygen exposure leads to early adult cardiac dysfunction, remodeling and activation of the renin-angiotensin system. *Hypertension* 2014;63:143-150. PMID: 24166752

--Mian MOR, Paradis P, **Schiff rin EL**. Innate Immunity in Hypertension. *CurrHypert Rep.* 2014;16:413-422. DOI: 10.1007/s11906-013-0413-9. PMID: 24407446.

--Weber MA, **Schiff rin EL**, Mann S, Lindholm LH, Kenerson JG, Flack JM, Carter BL, Materson BJ, Ram VS, Cohen DL, Cader J-C, Jean-Charles RR, Taler S, Kountz D, Townsend R, Chalmers J, Ramírez AJ, Bakris GL, Wang J, Schutte AE, Bisognano JD, Touyz RM, Sica D, Harrap SB, White WB. Clinical Practice Guidelines for the Management of Hypertension in the Community: A Statement by the American Society of Hypertension and the International Society of Hypertension. *J Hypertens.* 2014;32:3-15. doi: 10.1097/HJH.000000000000065. PMID: 24270181.

--Campbell NRC, Lackland D, Chockalingam A and Lisheng L), and the Executive Committee of the International Society of Hypertension (Harrap S, Touyz RM, Burrell L, Ramírez A, Schmieder R, Schutte A, Prabhakaran D, **Schiff rin EL**). The International Society of Hypertension and World Hypertension League call on governments, non governmental organizations and the food industry to work to reduce dietary sodium. *J Hypertens.* 2014;32:446-447. doi: 10.1097/HJH.000000000000079. PMID: 24430121.

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

Respectfully Submitted

Rubin Becker, MD
Chief, Division of Internal Medicine

Annex 1: Research, Grants & Awards

NAME	AGENCY	TITLE	External Grants	Career Awards	Industrial Contracts	Clinical Research Award
Hoffer, Leonard J.	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	105,000			
Kahn, Susan Rebecca	Heart & Stroke Foundation of Ontario	P Wells - HSFO - Development and Validation of Clinical Prediction Ruls for Bleeding for Patients on Anticoagulant Therapy for Venous Thromboembolism	3,800			
Kahn, Susan Rebecca	Lawson Health Research Institute	A Prospective Study of Upper Extremity Deep Vein Thrombosis to Determine the Prevalence of Post-Thrombotic Syndrome in Patients Managed with Anticoagulation	9,500			
Kahn, Susan Rebecca	Canadian Institutes for Health Research	Prospective Evaluation of Long-Term Outcomes After Pulmonary Embolism: the Elope Study	38,544			
Kahn, Susan Rebecca	National Institutes of Health (USA) NIH	Suresh Vedantham -University of McMaster - Pharmacomechanical Catheter-Directed Thrombolysis for Acute DVT-Attract Trial	42,041			
Kahn, Susan Rebecca	Canadian Institutes for Health Research	CIHR-A Randomized, Placebo-Controlled Trial of Compression Stockings to Prevent the Post-Thrombotic	87,193			
Kahn, Susan Rebecca	Canadian Institutes for Health Research	Randomized Controlled Trail of Anticoagulation vs Placebo for a First Symptomatic Isolated Distal Deep-Vein Thrombosis (Iddvt): the Cactus-Pts Trial	126,171			
Kahn, Susan Rebecca	Quintiles Inc.	A Phase III, Randomized, Double-Blind, Double-Dummy, Parallel Group, Multi-Center, Multi-National Study for Evaluation of Efficacy and Safety of (Lmw) Heparin/Edoxaban Versus (Lmw) Heparin/Warfarin in Subjects with Symptomatic Deep-Vein Thrombosis And/			112,857	
Kahn, Susan Rebecca	Institut de recherche en sante d'Ottawa	REVERSE (Recurrent Venous Thromboembolism Risk Stratification Evaluation) a Study to Develop a Cl			1,190	
Kahn, Susan Rebecca	Institut de recherche en sante d'Ottawa	REVERSE -Recurrent Venous Thromboembolism Risk Stratification Evaluation II: Validation of the Men and Herdoo2 -A Clinical Decision Rule to Identify Patients with Unprovoked Venous Thromboembolism Who Can Discontinue Anticoagulants After Six Month			7,600	
Kahn, SR	Sanofi Aventis	Thrombosis Fellowship			45,000	
Schiffirin, Ernesto	Canada Foundation for Innovation and Gov of Canada CRC program	Canada Research Chair in Vascular and Hypertension Research	\$1,400,000			
Schiffirin, Ernesto	Canadian Institutes for Health Research	MicroRNAs and Gene Regulation on Vascular Remodeling in Hypertension from Mice to Humans	583,717			
Schiffirin, Ernesto	Canadian Institutes for Health Research	CIHR-T-Regulatory Cells and Vascular Injury in Hypertension	757,495			
Schiffirin, Ernesto	Canadian Institutes for Health and Research	Endothelin, vascular inflammation and injury, and hypertension	767,145			
Schiffirin, Ernesto	Institut Servier (L') (France)	Gene Expression Profile in Small Resistance Arteries in Patients with Hypertension with or without Nephroangiosclerosis and Its Relation to Small and Large Artery Function and Remodeling			145,062	
Tagalakis, Vicky	Canadian Institutes of Health Research	Lots about clots for grandmothers, mothers and daughters	3,000			
Tagalakis, Vicky	Canadian Institutes of Health and Research	Statin Use and the Prevention of Recurrent Venous Thrombolism in the Elderly: the Staveno Study	63,635			
Tagalakis, Vicky	Canadian Institutes 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	836,841			
Tagalakis, Vicky	Canadian Institutes of Health and Research	Propensity scores and marginal structural models in drug safety research.	405,939			
Tagalakis, Vicky	Canadian Institutes for Health and Research	The SOX Trial: Disseminating the unexpected results of a large, CIHR-funded North American RCT of elastic compression stockings to prevent the post-thrombotic syndrome	19,263			
Tagalakis, Vicky	Heart and Stroke Foundation of Canada	"GENESIS PRAXY: GENdEr and Sex Determinants of Cardiovascular Disease: From Bench to Beyond Premature Acute Coronary Syndrome"	528,524			
Tagalakis, Vicky	Heart and Stroke Foundation of Canada	Screening of Occult Malignancy in Patients with unprovoked venous thromboembolism: a randomized controlled trial using a comprehensive computed tomography of the abdomen/pelvis (SOME trial)	601,659			
Tagalakis, Vicky	Canadian Institutes of Health and Research	The use of Extended Peri-Operative Low Molecular Weight Heparin to Improve Cancer Specific Survival Following Resection of Colon Cancer: A Randomized Controlled Trial.	816,176			
Tagalakis, V.	Department of Medicine. JGH	Epidemiology of venous thrombosis and pharmacoepidemiology				\$24,000

Revised May 26, 2015.pm