

Annual Report
Division of General Internal Medicine
Department of Medicine - Jewish General Hospital
January 1 - December 31, 2020

SUMMARY

This year has been challenging for the Division with the COVID pandemic. In spite of this we were successful in maintaining an excellent team spirit and collaboration to achieve excellence in patient care, teaching and research. We served as role models in performing with all the threats and limitations of the COVID pandemic.

Clinical Innovation:

Contribution to adaptation of JGH to Covid-19 pandemic

1. Research and publications:

Kahn, Susan

Impactful paper (2020) as the American Heart Association issues a call to action on the importance of VTE prevention in hospitalized patients:

Henke PK, Kahn SR, Pannucci CJ, Secemsky EA, Evans NS, Khorana AA, Creager MA, Pradhan AD on behalf of the American Heart Association Advocacy Coordinating Committee. Call to Action to Prevent Venous Thromboembolism in Hospitalized Patients: A Policy Statement From the American Heart Association. Circulation 2020 Jun 16;141(24):e914-e931.

Schiffrin, Ernesto L.

Major Research Activities: Clinical and experimental hypertension, role of vasoactive peptides (angiotensin, endothelin) and their intracellular signal transduction, resistance arteries in cardiovascular disease and more specifically in clinical and experimental hypertension, role of endothelium, cardiovascular hypertrophy and vascular remodeling, clinical pharmacology of hypertension, genetic determinants of hypertension and vascular remodeling, microRNAs and immune system in hypertension. Next generation and single cell sequencing.

Best 5 publications:

Schiffrin EL. How Structure, Mechanics and Function of the Vasculature Contribute to Blood Pressure Elevation in Hypertension. *Can J Cardiol.* 2020;36(5):648-658. doi: 10.1016/j.cjca.2020.02.003. PMID: 32389338.

Berillo O, Huo K-G, Fraulob-Aquino JC, Richer C, Briet, M, Boutouyrie P, Lipman ML, Sinnott D, Paradis P, **Schiffrin EL.** Circulating let-7g-5p and miR-191-5p are independent predictors of chronic kidney disease in hypertensive patients. *Amer J Hypert.* 2020;33(6):505–513. Doi: 10.1093/ajh/hpaa031. PMID: 32115655.

Berillo O, Ouerd S, Idris-Khodja N, Rehman A, Richer C, Sinnett D, Kwitek AE, Paradis P, **Schiffrin EL**. Chromosome 2 fragment substitutions in Dahl salt-sensitive rats and RNA sequencing identified *Enpep* and *Hs2st1* as vascular inflammatory modulators. *Hypertension*. 2021;77:178-189. DOI: 10.1161/HYPERTENSIONAHA.120.15690.

Shokoples BG, Paradis P, **Schiffrin EL**. P2X7: An untapped target for the management of cardiovascular disease. *Atheroscl Thromb Vasc Biol*. 2021;41: 186-199. [doi:10.1161/ATVBAHA.120.315116](https://doi.org/10.1161/ATVBAHA.120.315116). PMID: 32998520.

Ouerd S, Idris-Khodja N, Trindade M, Coelho SC, Neves MF, Jandeleit-Dahm KA, Paradis P, **Schiffrin EL**. Endothelial Cell-Restricted Endothelin-1 Overexpression Worsens Atherosclerosis and Immune Cell Infiltration in Type-1 Diabetes via NOX1. *Cardiovasc Res*. 2021; doi:[10.1093/cvr/cvaa168](https://doi.org/10.1093/cvr/cvaa168). PMID: 32533834.

Schwartz, Blair

Dr Schwartz's core research centers on quality improvement, evaluating the manner in which we deliver care to hospitalized patients and seeking to improve this process, most recently with a focus on the field of venous thromboembolism. Additionally, with the advent of the COVID-19 pandemic, he has focused on exploring outcomes and predictors thereof for patient admitted to the critical care unit with this novel respiratory syndrome.

Gerstein L, Koolian M, Schwartz BC. Sub-segmental pulmonary emboli as a marker of CT-pulmonary angiogram overuse in a single-center retrospective cohort study: A dimer a dozen? *Thromb Res*. 2020 Dec;196:463-465

Yang SS, Lipes J, Dial S, Schwartz BC, et al. Outcomes and clinical practice in patients with COVID-19 admitted to the intensive care unit in Montréal, Canada: a descriptive analysis. *CMAJ Open*. 2020 Nov 24;8(4):E788-E795.

Tagalakis, Vicky

Dr Tagalakis is a clinical epidemiologist and internist based at the Jewish General Hospital. She is appointed as Associate Professor in the Department of Medicine. She is Co-Lead of the Quality Improvement Platform of CanVECTOR, a CIHR funded Canadian national research and training network on venous thromboembolism (VTE).

Dr Tagalakis' principal research interests focus primarily on etiologic mechanisms for VTE and VTE outcomes primarily in cancer patients. She has expertise in research methodology including pharmacoepidemiology pertaining to thrombosis-related analyses of large administrative databases. She has been awarded numerous peer-reviewed research grants from national and provincial funding agencies and has published extensively in the field of venous thrombosis.

With regard to epidemiologic studies of venous thromboembolism, she has sought to elucidate the impact of known risk factors - such as inherited thrombophilic disorders - on venous thrombotic outcomes - such as catheter related thrombosis - through the use of nested case-control and cohort study methodology.

The following publications are highlights of 2020:

Tagalakakis V. Superficial vein thrombophlebitis. *BMJ Best Practice* August 2020, available at https://thrombosiscanada.ca/wp-uploads/uploads/2021/01/47.-Superficial-Vein-Thrombosis_29Aug2020.pdf

Routhier N, Tagalakakis V, Klil-Drori AJ. VTE prophylaxis (revised). *BMJ Point-of-Care* August 12, 2020, available at: <https://online.epocrates.com/u/29111087/VTE+prophylaxishttps://online.epocrates.com/u/29111087/VTE+prophylaxis>

Malhamé I, Tagalakakis V, Dayan N. Diagnosing Pulmonary Embolism in Pregnancy Synthesis of Current Guidelines and New Evidence. *J Obstet Gynaecol Can* Mar 2020 Apr 28:S1701-2163(20)30343-1.

2. Teaching and learning (undergraduate and graduate):

Mamane, Samuel

Passing the Royal College exam – General Internal Medicine Academic Half-day – Sept 29 2020

Basic Epidemiology and Biostatistics for understanding scientific papers: Your questions answers – Internal Medicine Academic Half Day – Feb 13 2020

A multidisciplinary pre-operative clinic: current practice and perspectives – Anesthesiology Grand Rounds – Jan 23 2020

Transition to Clinical Practice (UGME) – January – February 2020 (21 hours)
Expert Physician Rounds (UGME) – January 22 2020 (2 hours)

Schiffrin, Ernesto L

Teaching Recognition:

Repeated invitations to give CPD lectures

Research Trainee Supervision:

Ph.D. students, Division of Experimental Medicine, McGill University

Ahmad Usama, 2017-, Role of γ/δ T cells in hypertension.

Kevin Comeau, 2018-, Study of memory gamma delta T cells and their role in hypertension and vascular injury

Brandon Shokoples, 2019-. Purinergic receptor P2X7 in immune responses in hypertension and vascular injury

Nathanne Dos Santos Ferreira PhD, 2019-, determine the role of CD39 in T regulatory cells counteracting angiotensin II-induced hypertension and vascular injury

Post-doctoral Fellows

Akagi Hinori MD, PhD, 2019-, research on role of IL-23 in Hypertension and vascular injury.

Olga Berillo PhD, 2015-2019, research on non-coding RNA in hypertension; Post-doc completed, extension to 2020 granted to complete project

Antoine Caillon PhD, 2015-, research on Role of γ/δ T cells in hypertension

Research Associates

Olga Berillo PhD, 2019-, research on non-coding RNA in hypertension

Antoine Caillon PhD, 2019-, research on Role of γ/δ T cells in hypertension

3. Involvement in the community:

Ernesto L. Schiffrin

Conferences:

“Comparison of the new Global Guidelines from the International Hypertension Society and Hypertension Canada Guidelines”, webinar organized by the Chinese Hypertension League, May, 2020.

Debate "Precision medicine in hypertension: ready for prime time?" Webinar, virtual European Society of Cardiology Congress on August 29, 2020.

2012-to date Member of the Board, North America Artery (society)

2016-to date Editor-in-Chief, the American Journal of Hypertension

Not detailed, repeatedly chair of sessions of national and international meetings (Québec Hypertension Society, Canadian Hypertension Society, American Heart Association Council for High Blood Pressure Research, American Heart Association National Meeting, International Society of Hypertension Meeting, etc.)

Grant Panels and Review:

College of reviewers CIHR

Editorial Activities

Editor-in-Chief, American Journal of Hypertension

Editorial Board member for Hypertension, J. of Hypertension, J. of Vascular Research

Reviews for Circulation, Circ. Research, Hypertension, J. of Hypertension, Nature

Communications, Scientific Reports

Member Program Committee for Annual Meeting of Hypertension Canada.

Schwartz, Blair C

Chair, Jewish General Hospital, Code Blue Committee

Chair, Jewish General Hospital – Dept of Medicine, Morbidity and Mortality Committee

4. Partnerships: None to report.

5. Milestones: None to report.

6. New hires, promotions, and retirements

Cafaro, Teresa has been recruited to the Division. Her start date is July 2021.

Elizov, Michelle

2020 July Appointed as Associate Dean Faculty Development

Kahn, Susan R

2020-to date Associate Chair Research, Department of Medicine, McGill University.
2020-to date Appointed to Technical Expert Panel on Thrombostasis of the WHO Advisory Group on Therapeutics Prioritization for COVID-19.
2020-to date Invited Member, External Scientific Advisory Board of INVITE (The Irish Network for VTE Research).
2020-to date Member, Hematology Subgroup, U.S. National Institutes of Health (NIH-NHLBI) Working Group on unresolved research issues in pulmonary embolism.
2020-2021 Appointed as Panel Member, ASH Guideline Panel on the Use of Anticoagulation in Patients with COVID-19.
2020 Appointed as Panel Member, CIHR 2nd COVID-19 Rapid Response Funding Opportunity.

7. Honours, awards and prizes:

Dr. Ernesto L. Schiffrin was appointed Associate Chair, Department of Medicine, McGill University.

8. Fundraising: None to report.

SECTION I - DIVISION STATUS UPDATE

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; active

Dr. Ruxandra Bunea, Assistant Professor of Medicine, McGill University; active

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

Dr. Michelle Elizov: Associate Professor of Medicine, McGill University, Associate Dean

Faculty Development, McGill University; active

Dr. L John Hoffer: Professor of Medicine, McGill University; active

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

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

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; active

Dr. Samuel Mamane: Assistant Professor of Medicine, McGill University; active

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

Dr. Ernesto L Schiffrin: Distinguished James McGill Professor and Associate Chair, Department of Medicine, McGill University; Physician-in-Chief and Director of the Cardiovascular Prevention Centre, Jewish General Hospital, Director, Hypertension and Vascular Research Unit, Lady Davis Institute for Medical Research; active

Dr. Blair C Schwartz: Associate Professor, McGill University; active

Dr. Vicky Tagalakakis: Associate Professor, McGill University, General Internal Medicine Program Director, Department of Medicine, McGill University; active

SECTION II - GRANTS, PUBLICATIONS, AND SERVICE OUTSIDE OF MCGILL

1. Grants and awards received

Kahn, Susan R
(12 in total, 5 as PI; 7 as Co-Inv.)

i. Peer-Reviewed Grants

2020-2021 **Fonds de recherche du Québec; Soutien à l'organisation de congrès internationaux du Club des Ambassadeurs du Palais des congrès de Montréal**
Congrès 'International Society on Thrombosis and Haemostasis' à Montréal 2023:
Une occasion unique de mettre en valeur les chercheurs québécois et canadiens en thrombose et hémostasie, et de bâtir de nouvelles collaborations mondiales
Kahn SR (Principal Investigator)/ Rodger M (Co-PI); \$10,000

2020-2021 **Canadian Institutes of Health Research- Operating grant: COVID-19 May 2020 Rapid Research Funding Opportunity**
ATTACC (AntiThrombotic Therapy to Ameliorate Complications of COVID-19):

- A randomized international, multi-centre, adaptive, controlled clinical trial
Zarychanski R (PI)/ Lawler P/ Goligher E/ Rosenson R/ Nicolau J/ Escobedo J
(Co-PIs) Angus D/ Berry S/ Bradbury C/ Carrier M/ Farkouh M/ Fergusson DA/
Fowler R/ Galanaud JP/ Granton J/ Gross P / Houston BL/ Husain M/ **Kahn S (co-
investigator)**/ Kumar A/ Le Gal G/ Marshall J/ McDonald E/ Murthy S/ Tagalakis
V/ Turgeon AF; \$3,573,336
- 2020-2021 **Canadian Institutes of Health Research**
CanVECTOR Clinical Research Infrastructure Support for COVID-19
Kahn SR (Principal Investigator)/ Rodger M (Co-PI); \$150,000
- 2019-2025 **Canadian Institutes of Health Research- Project Grant**
EPCAT III – Extended Venous Thromboembolism Prophylaxis Comparing
Rivaroxaban and Aspirin to Aspirin Alone Following Total Hip and Knee
Arthroplasty
Shivakumar S (PI)/ Anderson D/ Andreou P/ Belzile E/ Bohm E/ Carrier M/ Dolan
S/ Dunbar M/ Forsythe M/ Gofton W/ Gross P/ Ikesaka R/ **Kahn S (co-
investigator)**/ MacDonald S/ Pelet S/ Rodger M/ Vendittoli P-A/ Wells P/ Zukor
D; \$4,482,900
- 2019-2025 **Canadian Institutes of Health Research- Project Grant**
StAtins for Venous Event Reduction in patients with venous thromboembolism
(The SAVER Trial)
Roger M and Delluc A (Co-PIs)/ Abdulrehman J/ Ageno W/ Brehaut J/ Douketis J/
Fergusson D/ Galanaud J-P/ **Kahn S (co-investigator)**/ Kearon C/ Kovacs M/
Mallick R/ Schulman S/ Shivakumar S/ Siegal D/ Skeith L/ Thavorn K/ Wan T/
Wu C; \$3,460,341
- 2019-2021 **Canadian Institutes of Health Research- Project Grant**
A Pilot Study Assessing the Feasibility of a Randomized Controlled Trial
Evaluating Aspirin in Postpartum Women at Risk of Developing Venous
Thromboembolism (pilot PAPS: Postpartum Aspirin Prophylaxis Study)
Skeith L and Rodger M (Co-PIs)/ Bates S/ Chan W-S/ Duffett L/ Gibson P/ **Kahn
S (co-investigator)**/ Metcalfe A/ Wood S; \$455,175
- 2019-2020 **National Institute of Health- National Heart, Lung and Blood Institute
1U34HL147347-01**
Late Phase Clinical Trial Design and Planning for Pulmonary Embolism –
Thrombus Removal with Adjunctive Catheter-Directed Therapy (PE-TRACT)
Sista AK (PI)/ Kahn **SR (co-investigator)**/ Vedantham S; US\$222,526
- 2017-2023 **National Institute of Health- HL137835-01**
Chronic Venous Thrombosis: Relief with adjunctive catheter-based therapy (C-
TRACT) Study Data Coordinating Center.
Kearon C (PI)/ **Kahn SR (co-investigator)**/ Julian J/ Parpia S; \$2,052,404
- 2017-2022 **Canadian Institutes of Health Research- Project Scheme : 2016 1st Live Pilot**
Apixaban Twice Daily vs Rivaroxaban Once Daily for the Treatment of Venous

Thromboembolism: A randomised controlled trial (COBRRA trial)
 Castellucci LA and Rodger M (Co-PIs)/ Bates S/ de Wit K/ **Kahn SR (co-investigator)**/ Kearon C/ Kovacs M/ Le Gal G/ Shivakumar S/ Solymoss S/ Thavorn K; \$1,231,650

2015-2023 **Canadian Institutes of Health Research-Foundation Scheme: 2014 1st Live Pilot**
 Improving long term outcomes after venous thromboembolism (VTE)
Kahn SR (Principal Investigator)/ 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/ Tagalakakis V/ Wakefield T/ Wells P/ Wu C; \$2,050,822

2015-2021 **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 Investigator)/ 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/ Kassis 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/ Tagalakakis V/ Takach Lapner S/ Thavorn K/ Weitz J/ Wells P/ Wu C/ Zarychanski R; \$1,500,000 (CIHR component) + \$4,200,000 (Partner support)

ii. Unrestricted grants-in-aid, Industry

2019-2021 The TILE Pilot Study: Tinzaparin Lead-In to Prevent the Post-Thrombotic Syndrome Study (a randomized clinical trial)
Kahn SR (Principal Investigator)/ Galanaud J-P (co-PI)
 Funded by Leo Pharma; \$435,510

Mamane, Samuel

2020-2021 Clinical Research Award - Dept of Medicine, Jewish General Hospital (\$5,000)
 2019-2020 Clinical Research Award - Dept of Medicine, Jewish General Hospital (\$12,000)

Schiffrin, Ernesto L

2021-2027 Distinguished James McGill Research Grant, McGill University \$15,000
 2015-2022 Canadian Institutes of Health Research: CIHR First Pilot Foundation Grant 143348
 “Vascular remodeling in hypertension and cardiometabolic disease: from mice to humans” \$3,160,000

2019- Grants and contracts from pharmaceutical industry: IDORSIA: Effect of
aprocitentan in resistant hypertension, PRECISION trial (2019-)

Tagalakis, Vicky

Tagalakis, Vicky

2020-2021 Canadian Institutes of Health Research \$2,112,500.00
“Canadian COVID-19 Prospective Cohort Study (CANCOV)”

Cheung / Ahmed / Batt/ Binnie / Dos Santos / Ghassemi / Herridge / Lamontagne / Morin / Palepu
/ Razak / Stelfox / Strug / Tsang / Verma (Co-PIs) / Tagalakis (Co-Investigator) et
al.

2020-2021 Canadian Institutes of Health Research \$3,573,336.00
“ATTACC (AntiThrombotic Therapy to Ameliorate Complications of COVID-

19): A randomized international, multi-centre, adaptive, controlled clinical trial”

Zarychanski / Lawler / Goligher / Rosenson / Nicolau / Escobedo (PIs)

Angus / Berry / Bradbury / Carrier / Farkouh / Fergusson / Fowler / Galanaud /

Granton / Gross /Houston / Husain / Kahn / Kumar / Le Gal / Marshall / McDonald

/ Murthy / Tagalakis (Co-Investigator) / Turgeon

2019-2024 Canadian Institutes of Health Research \$895,050.00

“Screening for Occult Malignancy in Patients with Unprovoked Venous
Thromboembolism: a Randomized Controlled Trial using 18F-

Fluorodeoxyglucose Positron Emission Computed Tomography. SOME-2 Trial”

Delluc / Carrier (PIs) /Galanaud / Lazo-Langner / Le Gal / Ramsay / Robin /Salaun

/ Shivakumar/ Solymoss / Tagalakis (Co-Investigator) / Zarychanski / Zuckier

2019-2021 Heart and Stroke Foundation of Canada- Grant-in-Aid 2019/20 \$188,628.00

“Age-adjusted D-dimer cutoff levels to rule out deep vein thrombosis

(The ADJUST-DVT Study)” Le Gal G (PI)/ Tagalakis (Co-Investigator) / et al

2015-2022 Canadian Institutes of Health Research \$1,071,721.00

“Statistical Methods in Pharmacoepidemiology and Perinatal Epidemiology”

Platt (PI) / Ernst / Kramer / Moodie / Suissa / Tagalakis (Co-Investigator)

2015-2021 Canadian Institutes of Health Research \$1,500,000.00

ICRH Community Development Program Grants – Sleep and Circadian Rhythms

and Venous Thromboembolic Diseases Clinical Trials Grant: “CanVECTOR

(Canadian Venous Thromboembolism Clinical Trials and Outcomes Research)
Network”

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 /

2. Scholarly works published in the 2020 calendar year:

Cummings, Beth

Claudio F, Aalamian A, **Cummings BA**, Hannouche M, Zanelli P, Tourian L (2020). Residency redeployment during a pandemic: Lessons for balancing service and learning. Canadian Medical Education Journal. 11(5), e132-e133. doi: 10. 36834/cmej. 70267

Gumuchian ST, Pal NE, Young M, Danoff D, Plotnick LH, **Cummings BA**, Gomez-Garibello C, Dory V (2020). Learner handover: Perspectives and recommendations from the front-line. Perspectives in Medical Education. Online ahead of print. doi. org/10. 1007/s40037-020-00601-4.

Dory V, **Cummings BA**, Mondou M, Young M (2020). Nudging clinical supervisor to provide better in-training evaluation reports. Perspectives on Medical Education. 9(1):66-70. doi: 10. 1007/s40037-019-00554-3.

Cummings B, Koch M, Mondou M, Millar C, Elizov M. (2020). McGill University Faculty of Medicine. Academic Medicine 95(9S):S592-595. doi: 10. 1097/ACM. 0000000000003309

Elizov, Michelle

Cummings B, Koch M, Mondou M, Millar C, **Elizov M**. (2020). McGill University Faculty of Medicine. Academic Medicine 95(9S):S592-595. doi: 10. 1097/ACM. 0000000000003309

Hoffer, L. John

Hoffer LJ. Vitamin C and the brain. In: Chen Q, Vissers MC, eds. Vitamin C: New Biochemical and Functional Insights Boca Raton, FL: CRC Press, Taylor and Francis Group; 2020:213-34.

Hoffer LJ. Explaining equipoise. Nutr Clin Pract 2020;35:495-8.

Lipes, Jed

Yang SS, **Lipes J**, Dial S, Schwartz B, Laporta D, Wong S, Baldry C, Warshawsky P, De Marchie M, Hornstein D, McMillan P, Jayaraman D. Outcomes and clinical practice in COVID-19 patients admitted to ICU in Montreal, Quebec, Canada – a descriptive analysis. CMAJ Open. 2020 Nov 24;8(4):E788-E795.

Yang SS, Boudjemai R, **Lipes J**. Interleukin-6 antagonist Tocilizumab to treat critically ill COVID-19 patients with cytokine release syndrome – a case series. J Cardiothorac Vasc Anesth. 2020 Oct 24;S1053-0770(20)31154-X.

Yang SS, **Lipes J**. Corticosteroids for critically ill COVID-19 patients with cytokine release syndrome: a limited case series. Epub May 11. Can J Anaesth. 2020 Oct;67(10):1462-1464.

Kahn, Susan R

Peer-reviewed articles (23)

(Note: * refers to trainee under my direct supervision)

Kearon C, Carrier M, Gu C-H, Schulman S, Bates SM, **Kahn SR**, Chagnon I, Nguyen DT, Wu C, Rudd-Scott L, Julian JA. Rivaroxaban Compared to Placebo for the Treatment of Leg Superficial Vein Thrombosis: A Randomized Trial. Semin Thromb Hemost 2020 Nov;46(8):977-985.

*Tritschler T, Mathieu ME, Skeith L, Marc Rodger M, Middeldorp S, Brighton T, Sandset PM, **Kahn SR**, Le Gal G for the International Network of VENous Thromboembolism Clinical Research Networks. Anticoagulant interventions in hospitalized patients with COVID-19: A scoping review of randomized controlled trials and call for international collaboration. J Thromb Haemost 2020 Nov;18(11):2958-2967.

Razavi MK, Salter A, Goldhaber SZ, Lancia S, **Kahn SR**, Weinberg I, Kearon C, Azene EM, Patel NH, Vedantham S. Correlation between Post-Procedure Residual Thrombus and Clinical Outcome in Deep Vein Thrombosis Patients Receiving Pharmacomechanical Thrombolysis in a Multi-center Randomized Trial. J Vasc Interv Radiol 2020 Oct;31(10):1517-1528.e2.

Darzi AJ, Repp AB, Spencer FA, Morsi RZ, Charide R, Etxeandia-Ikobaltzeta I, Bauer KA, Burnett AE, Cushman M, Dentali F, **Kahn SR**, Rezende SM, Zakai NA, Agarwal A, Karam SG, Lotfi T, Wiercioch W, Waziry R, Iorio A, Akl EA, Schünemann HJ. Risk Assessment Models for VTE and Bleeding in Hospitalized Medical Patients: An Overview of Systematic Reviews. Blood Adv 2020 Oct 13;4(19):4929-4944.

Houston BL, Lawler PR, Goligher EC, Farkouh ME, Bradbury C, Carrier M, Dzavik V, Fergusson DA, Fowler RA, Galanaud JP, Gross P, McDonald EG, Husain M, **Kahn SR**,

Kumar A, Marshall J, Murthy S, Slutsky A, Turgeon AF, Berry S, Rosenson RS, Escobedo G, Nicolau JC, Zarychanski R. AntiThrombotic Therapy to Ameliorate Complications of COVID-19 (ATTACC): Study design and methodology for an international, adaptive Bayesian randomized controlled trial. Clin Trials 2020 Oct;17(5):491-500.

*Mack J, **Kahn SR**, Tinmouth A, Fergusson D, Hébert PC, Lacroix L, on behalf of the Canadian Critical Care Trials Group. Volume-dependent effect of stored red blood cells: a secondary analysis of the Age of Blood Evaluation trial. Transfusion 2020 Sep;60(9):1929-1939.

Galanaud J-P, Sevestre M-A, Pernod G, Genty C, Richaud C, Rolland C, Weber L, **Kahn SR**, Quéré I, Bosson J-L for the OPTIMEV-SFMV investigators. Epidemiology and 3-year outcomes of combined oral contraceptive associated distal deep vein thrombosis. Res Pract Thromb Haemost 2020 Sep 15;4(7):1216-1223

Galanaud J-P, Ducruet T, **Kahn SR**, on behalf of the SOX trial investigators group. Accuracy of contralateral Villalta score to assess for pre-existing chronic venous insufficiency in patients with unilateral deep vein thrombosis. J Thromb Haemost 2020 Sep 8. Online ahead of print.

Rosovsky RP, Sanfilippo KM, Wang TF, Rajan SK, Shah S, Martin KA, Ní Áinle F, Huisman M, Hunt BJ, **Kahn SR**, Kevane B, Lee AYY, McLintock C, Baumann Kreuziger L. Anticoagulation

Practice Patterns in COVID-19: A Global Survey. Res Pract Thromb Haemost 2020 Jul 9;4(6):969-983.

Rabinovich A, Gu CS, Vedantham S, Kearon C, Goldhaber SZ, L Gornik H, **Kahn SR**; ATTRACT Trial Investigators. External validation of the SOX-PTS score in a prospective multicenter trial of patients with proximal deep vein thrombosis. J Thromb Haemost 2020 Jun;18(6):1381-1389.

Henke PK, **Kahn SR**, Pannucci CJ, Secemsky EA, Evans NS, Khorana AA, Creager MA, Pradhan AD on behalf of the American Heart Association Advocacy Coordinating Committee. Call to Action to Prevent Venous Thromboembolism in Hospitalized Patients: A Policy Statement From the American Heart Association. Circulation 2020 Jun 16;141(24):e914-e931.

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3. Academic and community engagement service outside of McGill by individual members of the unit: Reported under Involvement in Community

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