

# JAMES (JAY) BROPHY



## Curriculum Vitae 2024-03-10

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### Professor of Medicine

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### Epidemiology, Biostatistics and Occupational Health

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### McGill University

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#### Education

Degree	Institution	Department	Location
PhD	McGill University Faculty of Medicine	Epidemiology and Biostatistics	Montreal QC
FRCPC	Université de Montreal Faculte de Medecine	Cardiology	Montreal QC
MD	McMaster University Faculty of Health Sciences	Medicine	Hamilton ON
M.Eng	McMaster University Faculty of Engineering	Chemical engineering	Hamilton ON
B.Eng	McGill University Faculty of Engineering	Chemical engineering	Montreal QC

## Awards

Award	Date
Fellow Canadian Academy of Health Sciences	Sept 2018
Fellow Canadian Cardiovascular Society	May 2017



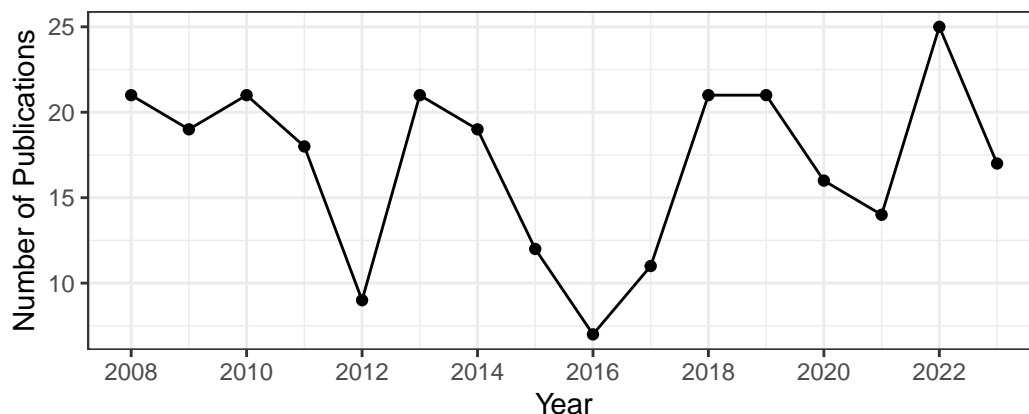
# Current Research Funding

Title	Agency	Date	Role
Appui à la recherche en évaluation des technologies et des pratiques de pointe dans les CHU (Health Technology and Evidence Based Medicine)	Fonds de Recherche Quebec Sante	July 2018-23	PI
Ticagrelor compared to clopidogrel in acute coronary syndromes - the TC4 comparative effectiveness study	Canadian Institutes of Health Research	April 2019-23	PI
Evaluating the Trajectory of Aortic Stenosis (AS) in Quebec patients - Diagnosis, Treatments, and Outcomes	Canadian Institutes of Health Research	Sept 2020 - 23	PI
The S. aureus Network Adaptive Platform Trial (SNAP) Canada: A Randomized Controlled Trial for Penicillin-susceptible, Methicillin-susceptible, and Methicillin resistant Staphylococcus aureus Bloodstream Infections in Hospitalized Patients	Canadian Institutes of Health Research	July 2021 - 2026	co-A
Comparative Effectiveness of Long-acting Insulins and Neutral Protamine Hagedorn (NPH) Insulin for the Prevention of Micro- and Macrovascular Complications Among Patients with Type 1 Diabetes	Canadian Institutes of Health Research	April 2023-2026	co-A

## Publications

All publications (455 on 2024-03-10) as recorded in Google Scholar can be found [here](#) Citations 28984, h-index 62

Includes letters, editorials as well as original articles



## 2024

AJ Marelli, C Li, A Liu, H Nguyen, H Moroz, JM Brophy, L Guo, .... Machine learning informed diagnosis for congenital heart disease in large claims data source. JACC: Advances. 3 (2), 100801. 2024.

M Mésidor, C Sirois, JR Guertin, ME Schnitzer, B Candas, C Blais, .... Effect of statin use for the primary prevention of cardiovascular disease among older adults: A cautionary tale concerning target trials emulation. Journal of Clinical Epidemiology. 111284. 2024.

J Rouette, EG McDonald, T Schuster, I Matok, JM Brophy, L Azoulay. Thiazide Diuretics and Risk of Colorectal Cancer: A Population-Based Cohort Study. American Journal of Epidemiology. 193 (1), 47-57. 2024.

JM Brophy Is science really self correcting? Something old and older. Medium (<https://medium.com/@jbrophy115/is-science-really-self-correcting-64b829ec7935>).

AM Albuquerque, I Eckert, L Tramujas, G Butler-Laporte, EG McDonald, .... Effect of tocilizumab, sarilumab, and baricitinib on mortality among patients hospitalized for COVID-19 treated with corticosteroids: a systematic review and meta-analysis. *Clinical Microbiology and Infection*. 29 (1), 13-21. 2023.

F Barili, JM Brophy, D Ronco, PO Myers, MS Uva, RMS Almeida, .... Risk of bias in randomized clinical trials comparing transcatheter and surgical aortic valve replacement: a systematic review and meta-analysis. *JAMA Network Open*. 6 (1), e2249321-e2249321. 2023.

L Azoulay, A St-Jean, M Dahl, J Quail, W Aibibula, JM Brophy, AW Chan, .... Hydrochlorothiazide use and risk of keratinocyte carcinoma and melanoma: A multisite population-based cohort study. *Journal of the American Academy of Dermatology*. 89 (2), 243-253. 2023.

AA Rahman, J Michaud, S Dell'Aniello, EEM Moodie, JM Brophy, .... Oral anticoagulants and the risk of dementia in patients with nonvalvular atrial fibrillation: a population-based cohort study. *Neurology*. 100 (12), e1309-e1320. 2023.

TA Mavrakanas, MA Tsoukas, JM Brophy, A Sharma, K Gariani. SGLT-2 inhibitors improve cardiovascular and renal outcomes in patients with CKD: a systematic review and meta-analysis. *Scientific Reports*. 13 (1), 15922. 2023.

JM Brophy, L Nadeau. Amiodarone vs dronedarone for atrial fibrillation: a retrospective cohort study. *CJC open*. 5 (1), 8-14. 2023.

A Diop, C Sirois, JR Guertin, ME Schnitzer, B Candas, B Cossette, .... Marginal structural models with latent class growth analysis of treatment trajectories: Statins for primary prevention among older adults. *Statistical Methods in Medical Research*. 32 (11), 2207-2225. 2023.

JM Brophy, L Nadeau. Beta-Blockers, Digoxin, or Both Following an Incident Diagnosis of Atrial Fibrillation: A Prospective Cohort Study. *Canadian Journal of Cardiology*. 39 (11), 1587-1593. 2023.

N Gorelik, S Paruthikunnan, A Uppal, AM Ervin, AV Ramanakumar, .... Usefulness of MRI-based local surveillance after surgical treatment of musculoskeletal soft-tissue sarcomas: a systematic review and meta-Analysis. *American Journal of Roentgenology*. 220 (6), 805-816. 2023.

J Brophy. In symptomatic AF with end-stage HF, adding catheter ablation to medical therapy improved clinical outcomes at 18 mo. *Annals of Internal Medicine*. 176 (12), JC137. 2023.

JM Brophy. RE: Covid testing in travellers-can we be smarter?. . . 2023.

A Rahman, K Johnson, J Michaud, E Moodie, J Brophy, JF Boivin, .... DIRECT ORAL ANTICOAGULANTS AND THE INCIDENCE OF DEMENTIA IN PATIENTS WITH NONVALVULAR ATRIAL FIBRILLATION. *INTERNATIONAL JOURNAL OF STROKE*. 18 (3), 115-116. 2023

I Iatan, I Ruel, A Guerin, L Cermakova, P Couture, J Bergeron, A Baass, .... Familial hypercholesterolemia in Canada: Investigating management patterns and clinical outcomes from the FH Canada registry. *Atherosclerosis*. 379, S31. 2023.

TA Mavrakanas, MA Tsoukas, JM Brophy, A Sharma, K Gariani. Impact of SGLT-2 inhibitors on cardiovascular and renal outcomes according to baseline renal function A systematic review and meta-analysis. . . 2023.

N Gorelik, EY Rula, CE Pelzl, J Hemingway, E Christensen, JM Brophy, .... Imaging Utilization Patterns in the Follow-Up of Extremity Soft Tissue Sarcomas in the United States. *Current Problems in Diagnostic Radiology*. . 2023.

JM Brophy. A Bayesian Perspective Extracorporeal CPR for Refractory Out-of-Hospital Cardiac Arrest. *medRxiv*. 2023.02.13.23285890. 2023.

SA Kutcher, L Flatman, R Haber, N Dendukuri, S Dandona, J Brophy. The efficacy and safety of the prasugrel, ticagrelor, and clopidogrel dual antiplatelet therapies following an acute coronary syndrome: A systematic review and Bayesian network .... *medRxiv*. 2023.08.12.23294021. 2023.

TC Lee, S Murthy, O Del Corpo, J Senécal, G Butler-Laporte, ZN Sohani, .... Remdesivir for the treatment of COVID-19: a systematic review and meta-analysis. *Clinical Microbiology and Infection*. 28 (9), 1203-1210. 2022.

JM Brophy. Molnupiravir's authorisation was premature. *bmj*. 376. 2022.

AM Albuquerque, L Tramuja, LR Sewanan, DR Williams, JM Brophy. Mortality rates among hospitalized patients with COVID-19 infection treated with tocilizumab and corticosteroids: a Bayesian reanalysis of a previous meta-analysis. *JAMA Network Open*. 5 (2), e220548-e220548. 2022.

A Sharma, M Elharram, J Afilalo, A Flannery, M Afilalo, C Tselios, J Ni, .... A randomized controlled trial of renin-angiotensin-aldosterone system inhibitor management in patients admitted in hospital with COVID-19. *American Heart Journal*. 247, 76-89. 2022.

J Rouette, EG McDonald, T Schuster, JM Brophy, L Azoulay. Treatment and prescribing trends of antihypertensive drugs in 2.7 million UK primary care patients over 31 years: a population-based cohort study. *BMJ open*. 12 (6), e057510. 2022.

A Razaghizad, E Oulousian, VK Randhawa, JP Ferreira, JM Brophy, .... Clinical Prediction Models for Heart Failure Hospitalization in Type 2 Diabetes: A Systematic Review and Meta-Analysis. *Journal of the American Heart Association*. 11 (10), e024833. 2022.

M Gaudino, JM Brophy. The controversy on the treatment of left main coronary artery disease. *The Journal of Thoracic and Cardiovascular Surgery*. 163 (5), 1864-1869. 2022.

S Perreault, A Dragomir, R Cote, S de Denus, J Brophy, ME Schnitzer, .... Comparative effectiveness and safety of low-dose oral anticoagulants in patients with atrial fibrillation. *Frontiers in Pharmacology*. 12, 812018. 2022.

J Brophy. In the general population, salt substitutes vs. regular salt reduce BP levels, CV outcomes, and mortality. *Annals of Internal Medicine*. 175 (12), JC139. 2022.

TC Lee, S Murthy, O Del Corpo, J Senécal, G Butler-Laporte, ZN Sohani, .... Remdesivir for the Treatment of COVID-19: An Updated Systematic Review and Meta-Analysis. *medRxiv*. 2022.01. 22.22269545. 2022.

M Samuel, JM Brophy. Diabetes and atrial fibrillation: does the type of diabetes matter?. *European Journal of Preventive Cardiology*. 29 (13), 1756-1758. 2022.

JM Brophy. Big data, big expectations and big judgements.. *The Canadian Journal of Cardiology*, S. S0828-282X (22) 00407. 2022.

J Rouette, EG McDonald, T Schuster, JM Brophy, L Azoulay. Dihydropyridine Calcium Channel Blockers and Risk of Pancreatic Cancer A Population-Based Cohort Study. *Journal of the American Heart Association*. 11 (24), e026789. 2022.

JM Brophy. Understanding Associations, Social Inequities, and Cardiovascular Risks. *The Canadian journal of cardiology*. 38 (12), 1918-1920. 2022.

X Xie, C Li, S Tiggelaar, F Simbulan, L Falk, JM Brophy. Developing a cross-validation tool for evaluating economic evidence in rapid literature reviews. *Journal of Comparative Effectiveness Research*. 11 (16), 1151-1160. 2022.

A Rahman, J Michaud, S Dell'Aniello, E Moodie, J Brophy, M Durand, .... Association between oral anticoagulants and risk of dementia in patients with non-valvular atrial fibrillation. *PHARMACOEPIDEMIOLOGY AND DRUG SAFETY*. 31, 631-631. 2022.

J Rouette, E McDonald, T Schuster, I Matok, J Brophy, L Azoulay. Thiazide diuretics and risk of colorectal cancer. *PHARMACOEPIDEMIOLOGY AND DRUG SAFETY*. 31, 69-70. 2022.

JM Brophy. In HF, SGLT2 inhibitors reduce HF hospitalizations at up to 2 y. *Annals of Internal Medicine*. 175 (8), JC87. 2022.

JM Brophy. mRNA COVID-19 vaccines were linked to myocarditis at 28 d (0.15 to 10 excess events/100 000 vaccinated persons). *Annals of Internal Medicine*. 175 (8), JC94. 2022.

AM Albuquerque, JM Brophy. Pacemaker risk following transcatheter aortic valve replacement-A Bayesian reanalysis. *International Journal of Cardiology*. 355, 32-36. 2022.

JM Brophy. After DES implantation, DAPT for 1 y vs. ≤ 6 mo increased major bleeding in patients with high baseline bleeding risk. *Annals of Internal Medicine*. 175 (4), JC45. 2022.

J Brophy. Molnupiravir's authorisation was premature Regulatory decisions fall short of the wise stewardship required during a pandemic. *BMJ-BRITISH MEDICAL JOURNAL*. 376. 2022.

AM Albuquerque, I Eckert, L Tramuja, EG McDonald, G Butler-Laporte, .... Analysis plan: Version 1.1 Effect of Tocilizumab, Sarilumab, and Baricitinib on Mortality Among Patients Hospitalized for COVID-19: A Systematic Review and Meta-Regression. . . 2022.

JM Brophy. SARS-CoV-2 testing in travellers: Can we be smarter?. *CMAJ*. 194 (1), E20-E20. 2022.

TC Lee, S Murthy, OC Del Corpo, J Senecal, G Butler-Laporte, ZN Sohani, .... Remdesivir for the Treatment of COVID-19: An Updated Systematic Review and Meta-Analysis (preprint). . . 2022.

M Etminan, JM Brophy, G Collins, M Nazemipour, MA Mansournia. To adjust or not to adjust: the role of different covariates in cardiovascular observational studies. *American Heart Journal*. 237, 62-67. 2021.

TC Lee, EG McDonald, G Butler-Laporte, LB Harrison, MP Cheng, .... Remdesivir and systemic corticosteroids for the treatment of COVID-19: A Bayesian re-analysis. *International Journal of Infectious Diseases*. 104, 671-676. 2021.

SA Kutcher, JM Brophy, HR Banack, JS Kaufman, M Samuel. Emulating a randomised controlled trial with observational data: an introduction to the target trial framework. *Canadian Journal of Cardiology*. 37 (9), 1365-1377. 2021.

M Aflaki, A Flannery, JP Ferreira, MP Cheng, N Kronfli, A Marelli, .... Management of Renin-Angiotensin-Aldosterone System blockade in patients admitted to hospital with confirmed coronavirus disease (COVID-19) infection (The McGill RAAS-COVID-19 .... *Trials*. 22, 1-3. 2021.

TJC Perreault S, Dragomir A, Côté R, Lenglet A, White-Guay B, de Denus S .... Comparative effectiveness and safety of high-dose rivaroxaban and apixaban for atrial fibrillation: A propensity score-matched cohort study. *Pharmacotherapy*. . 2021.

AM Albuquerque, L Tramuja, LR Sewanan, JM Brophy. Tocilizumab in COVID-19—A Bayesian reanalysis of RECOVERY. *medRxiv*. 2021.06. 15.21258966. 2021.

S Rinfret, I Jahan, K McKenzie, N Dendukuri, KR Baiey, S Mansour, .... The COVID-19 pandemic and coronary angiography for ST-elevation myocardial infarction, use of mechanical support, and mechanical complications in Canada: a Canadian Association .... *CJC open*. 3 (9), 1125-1131. 2021.

JM Brophy. Bayesian analyses of cardiovascular trials—bringing added value to the table. *Canadian Journal of Cardiology*. 37 (9), 1415-1427. 2021.

M Samuel, JM Brophy, L D'Aronco, JC Tardif, P Khairy. Distorting effect of immortal time bias on the association between catheter ablation for atrial fibrillation and incident stroke: caveat emptor. *Canadian Journal of Cardiology*. 37 (3), 377-381. 2021.

G Nakhlé, JM Brophy, C Renoux, P Khairy, P Bélisle, J LeLorier. Domperidone increases harmful cardiac events in Parkinson's disease: A Bayesian re-analysis of an observational study. *Journal of Clinical Epidemiology*. 140, 93-100. 2021.

JM Brophy. Key Issues in the Statistical Interpretation of Randomized Clinical Trials. *Canadian Journal of Cardiology*. 37 (9), 1312-1321. 2021.

J Rouette, JM Brophy, T Schuster, L Azoulay. Treatment trajectory of antihypertensive drugs in UK primary care practices. *PHARMACOEPIDEMIOLOGY AND DRUG SAFETY*. 30, 373-373. 2021.

AM Albuquerque, TC Lee, DR Williams, L Tramuja, JM Brophy. Analysis plan Does Sarilumab Reduce Mortality in Hospitalized Patients for COVID-19? A Bayesian Reanalysis. . . 2021.

A Albuquerque, L Tramuja, L Sewanan, J Brophy. Tocilizumab in COVID-19—A Bayesian reanalysis of RECOVERY (preprint). . . 2021.

## Top citations

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MN Babapulle, L Joseph, P Bélisle, JM Brophy, MJ Eisenberg. A hierarchical Bayesian meta-analysis of randomised clinical trials of drug-eluting stents. *The Lancet*. 364 (9434), 583-591. 2004. cites = 927

JM Brophy, L Joseph, JL Rouleau.  $\beta$ -Blockers in congestive heart failure: a Bayesian meta-analysis. *Annals of internal medicine*. 134 (7), 550-560. 2001. cites = 603

M Bally, N Dendukuri, B Rich, L Nadeau, A Helin-Salmivaara, E Garbe, .... Risk of acute myocardial infarction with NSAIDs in real world use: bayesian meta-analysis of individual patient data. *bmj*. 357. 2017. cites = 551

GBJ Mancini, M Etminan, B Zhang, LE Levesque, JM FitzGerald, .... Reduction of morbidity and mortality by statins, angiotensin-converting enzyme inhibitors, and angiotensin receptor blockers in patients with chronic obstructive pulmonary disease. *Journal of the American College of Cardiology*. 47 (12), 2554-2560. 2006. cites = 550

I Shrier, JF Boivin, RJ Steele, RW Platt, A Furlan, R Kakuma, J Brophy, .... Should meta-analyses of interventions include observational studies in addition to randomized controlled trials? A critical examination of underlying principles. *American journal of epidemiology*. 166 (10), 1203-1209. 2007. cites = 501