

### **Brian Hutton, MSc, PhD**

Senior Scientist, Ottawa Hospital Research Institute, Clinical Epidemiology Program  
Director, Knowledge Synthesis Group, Ottawa Hospital Research Institute  
Associate Professor, Ottawa University School of Epidemiology and Public Health  
Adjunct Scientist, Royal Ottawa Institute of Mental Health Research

#### **EDUCATION:**

PhD Epidemiology, McGill University, Montreal, Canada, 2011  
MSc Statistics, Carleton University, Ottawa, Canada, 2003  
BSc Integrated Sciences, Carleton University, Ottawa, Canada, 2001

#### **EMPLOYMENT HISTORY:**

<b>Time period</b>	<b>Organization</b>	<b>Position</b>
Jul 2021 - present	University of Ottawa, School of Epidemiology, Public Health and Preventive Medicine	Associate Professor
Jul 2019-present	Royal Ottawa Institute of Mental Health Research	Adjunct Scientist
Mar 2016-present	Ottawa Hospital Research Institute, Clinical Epidemiology	Director, Knowledge Synthesis Group
Dec 2018 – present	Ottawa Hospital Research Institute, Clinical Epidemiology	Senior Scientist
Jan 2016 - Nov 2018	Ottawa Hospital Research Institute, Clinical Epidemiology	Scientist
Jan 2012- Dec 2015	Ottawa Hospital Research Institute, Clinical Epidemiology	Associate Scientist, Senior Methodologist
Feb 2014 –Jun 2021	University of Ottawa, School of Epidemiology, Public Health and Preventive Medicine	Assistant Professor
Jan 2012-Feb 2014	University of Ottawa, Department of Epidemiology and Community Medicine	Adjunct Professor

#### **RECENT HONORS OF NOTE:**

- Recipient of CIHR/DSEN New Investigator Award (\$300,000 over 5 years, 2013-18)

#### **RECENT FUNDING (2018 – 2021):**

- Models for Primary Medical Care, Nursing Care and Personal Care in Long-Term Care Homes: Systematic Reviews to Inform Change in Canada (Canadian Institutes of Health Research, 2021-2023: \$126,000). **Role: Co-PI.**
- An umbrella review of prehabilitation interventions in surgery to inform policy and practice (Canadian Institutes of Health Research, 2021: \$100,000). **Role: Co-PI.**
- The development of a risk of bias assessment tool for network meta-analysis (Canadian Institutes of Health Research, 2021-24: \$360, 116). **Role: Co-I.**
- RESILIENCE (RESponsive Inquiry Linking IntervENTions and Caregiving Experiences) (Canadian Institutes of Health Research, 2021-22: \$100,000). **Role: Co-I.**
- Scoping Review of Evidence Regarding Psychosocial and Pharmacologic Interventions for Methamphetamine Use Disorder and Problematic Methamphetamine Use: Planning and Prioritizing Future Research (Canadian Institutes of Health Research, 2020: \$99,240). **Role: PI.**
- Artificial Intelligence in Systematic Reviews: Evaluation of Emerging Electronic Tools for Researchers in Knowledge Synthesis (Canadian Institutes of Health Research, 2019: \$100,000). **Role: PI.**

- CIHR Drug Safety and Effectiveness Network Team Grant: Methods and Applications Group for Indirect Comparisons (MAGIC) (Canadian Institutes of Health Research: 2019-2021: \$5,000,000). **Role: Co-PI.**
- Evaluating the Health Effects of Medical and Non-Medical Cannabis Use in the Elderly (Canadian Institutes of Health Research, 2019: \$122,626). **Role: PI.**
- Evaluating Ontario's rapid access addiction medicine (RAAM) model of care to address the Canadian opioid crisis (Canadian Institutes of Health Research, 2019: \$97,000). **Role: Co-PI.**
- Establishing an International Core Outcome Set for Clinical Trials of Interventions for Venous Thromboembolism in Adults (VTE-COS) (Canadian Institutes of Health Research, 2019: \$250,000). **Role: Co-investigator.**
- Using Real-World Data and Iterative Economic Evaluation to Prioritize Resource Allocation for Care and Research in Adult Patients with Relapsed/Refractory B-Cell Acute Lymphoblastic Leukemia (Ontario Institute for Cancer Research, 2019: \$285,000). **Role: Co-investigator.**
- Does integration of the Predict 2.1 algorithm into routine clinical practice improve the value of multigene assays in early stage breast cancer patients? A prospective cohort study with a pre-versus post-comparison (Ontario Institute for Cancer Research, 2019: \$260,000). **Role: Co-investigator.**
- Comparing Psychosocial Interventions and Establishing Core Outcomes for Opioid Use Disorder (Canadian Institutes of Health Research, 2018; \$108,100). **Role: PI.**
- Signal detection and network meta-analyses to update Canadian guidelines for chronic sinusitis (Canadian Institutes of Health Research, 2018-2020; \$190,000). **Role: PI.**
- Decision coaching for people preparing to make health decisions: A systematic review using an integrated knowledge translation approach (Canadian Institutes of Health Research, 2019-2021; \$150,000). **Role: Co-PI.**
- Randomised Study Comparing No Mechanical Bowel Preparation with Oral Antibiotics Alone in Patients Undergoing Elective Colon Surgery (The Ottawa Hospital Academic Medical Organization, 2018; \$100,000). **Role: Co-Investigator.**
- Cochrane Collaboration Complementary and Alternative Medicine Field: Resource for Research (NIH, 2018-2022: \$250,000). **Role: Co-Investigator.**

#### **SELECTED RECENT PUBLICATIONS (N=266)**

- Hamel C, Hersi M, Kelly SE, Tricco AC, Straus S, Wells G, Pham B, **Hutton B**. Guidance for using artificial intelligence for title and abstract screening while conducting knowledge syntheses. *BMC Med Res Methodol*. 2021 Dec 20;21(1):285. doi: 10.1186/s12874-021-01451-2.
- Hamel C, Garrity C, Hersi M, Butler C, Esmaeilisariji L, Rice D, Straus S, Skidmore B, **Hutton B**. Models of provider care in long-term care: A rapid scoping review. *PLoS One*. 2021 Jul 16;16(7):e0254527. doi: 10.1371/journal.pone.0254527.
- LeVasseur N, Cheng W, Mazzarello S, Clemons M, Vandermeer L, Jones L, Joy AA, Barbeau P, Wolfe D, Ahmadzai N, Hersi M, Stober C, Shorr R, Hilton J, **Hutton B**. Optimising weight-loss interventions in cancer patients-A systematic review and network meta-analysis. *PLoS One*. 2021 Feb 4;16(2):e0245794. doi: 10.1371/journal.pone.0245794.
- Jafar A, Lasso A, Shorr R, **Hutton B**, Kilty S. Olfactory recovery following infection with COVID-19: A systematic review. *PLoS One*. 2021 Nov 9;16(11):e0259321.
- Nochaiwong S, Chuamanochan M, Ruengorn C, Awiphan R, Tovanabutra N, Chiewchanvit S, **Hutton B**, Thavorn K. Impact of Pharmacological Treatments for Chronic Spontaneous Urticaria with an Inadequate Response to H1-Antihistamines on Health-Related Quality of Life: A Systematic Review and Network Meta-Analysis. *J Allergy Clin Immunol Pract*. 2021 Oct 22:S2213-2198(21)01141-7.
- Rice D, Corace K, Wolfe D, Esmaeilisariji L, Michaud A, Grima A, Austin B, Douma R, Barbeau P, Butler C, Willows M, Poulin PA, Sproule BA, Porath A, Garber G, Taha S, Garner G, Skidmore B, Moher D, Thavorn K, **Hutton B**. Evaluating comparative effectiveness of psychosocial interventions

adjunctive to opioid agonist therapy for opioid use disorder: A systematic review with network meta-analyses. *PLoS One*. 2020 Dec 28;15(12):e0244401.

- Tricco AC, Garritty CM, Boulos L, Lockwood C, Wilson M, McGowan J, McCaul M, **Hutton B**, Clement F, Mittmann N, Devane D, Langlois EV, Abou-Setta AM, Houghton C, Glenton C, Kelly SE, Welch VA, LeBlanc A, Wells GA, Pham B, Lewin S, Straus SE. Rapid review methods more challenging during COVID-19: commentary with a focus on 8 knowledge synthesis steps. *J Clin Epidemiol*. 2020 Oct;126:177-183.
- Ahmadzai N, Cheng W, Kilty S, Esmaeilisaraji L, Wolfe D, Bonaparte J, Schramm D, Fitzpatrick E, Lin V, Skidmore B, **Hutton B**. Pharmacologic and surgical therapies for patients with Meniere's disease: A systematic review and network meta-analysis. *PLoS One*. 2020 Sept 1;15(9): e0237523
- **Hutton B**, Hersi M, Cheng W, Pratt M, Barbeau P, Mazzarello S, Ahmadzai N, Skidmore B, Morgan SC, Bordeleau L, Ginex PK, Sadeghirad B, Morgan RL, Cole KM, Clemons M. Comparing Interventions for Management of Hot Flashes in Patients With Breast and Prostate Cancer: A Systematic Review With Meta-Analyses. *Oncology Nursing Forum*. 2020 Jul 1;47(4):E86-E106
- Pratt M, Weiland S, Ahmadzai N, Butler C, Wolfe D, Pussagoda K, Skidmore B, Veroniki A, Rios P, Tricco AC, **Hutton B**. A scoping review of network meta-analyses assessing the efficacy and safety of complementary and alternative medicine interventions. *Syst Rev*. 2020 Apr 30;9(1):97
- Canadian guideline for Parkinson disease. Grimes D, Fitzpatrick M, Gordon J, Miyasaki J, Fon EA, Schlossmacher M, Suchowersky O, Rajput A, Lafontaine AL, Mestre T, Appel-Cresswell S, Kalia SK, Schoffer K, Zurowski M, Postuma RB, Udow S, Fox S, Barbeau P, **Hutton B**. *CMAJ*. 2019 Sep 9; 191(36):E989-E1004.
- A systematic review and network meta-analysis of existing pharmacologic therapies in patients with idiopathic sudden sensorineural hearing loss. Ahmadzai N, Kilty S, Cheng W, Esmaeilisaraji L, Wolfe D, Bonaparte JP, Schramm D, Fitzpatrick E, Lin V, Skidmore B, Moher D, **Hutton B**. *PLoS One*. 2019 Sep 9;14(9):e0221713.
- Benefits and harms of medical cannabis: a scoping review of systematic reviews. Pratt M, Stevens A, Thuku M, Butler C, Skidmore B, Wieland LS, Clemons M, Kanji S, **Hutton B**. *Syst Rev*. 2019 Dec 10;8(1):320. doi: 10.1186/s13643-019-x.
- Pharmacological interventions for the treatment of delirium in critically ill adults. Burry L, **Hutton B\*** (**co-first**), Williamson DR, Mehta S, Adhikari NKJ, Cheng W, Ely EW, Egerod I, Fergusson DA, Rose L. *Cochrane Database of Systematic Reviews* 2019, Issue 9. Art. No.: CD011749.
- **Hutton B**, Pease C, Yazdi F, Wolfe D, Hamel C, Quach P, Skidmore B, Moher D, Alvarez GG. Efficacy and completion rates of rifapentine and isoniazid (3HP) compared to other treatment regimens for latent tuberculosis infection: a systematic review with network meta-analyses. *BMC Infect Dis*. 2017 April 11;17(1):265.
- **Hutton B**, Clemons M, Mazzarello S, Kuchuk I, Skidmore B, Ng T. Identifying an optimal antiemetic regimen for patients receiving anthracycline and cyclophosphamide-based chemotherapy for breast cancer – An inspection of the evidence base informing clinical decision-making. *Cancer Treat Rev*. 2015 Dec;41(10):951-9.
- Cameron C, Fireman B, **Hutton B**, Clifford T, Coyle D, Wells G, Dormuth CR, Platt R, Toh S. Network meta-analysis incorporating randomized controlled trials and non-randomized comparative cohort studies for assessing the safety and effectiveness of medical treatments: challenges and opportunities. *Syst Rev*. 2015 Nov 5;4:147.
- **Hutton B**, Salanti G, Caldwell D, Chaimani A, Schmid C, Cameron C, Ioannidis J, Straus S, Thorlund K, Jansen J, Mulrow C, Catala-Lopez F, Gotzsche P, Dickersin K, Boutron I, Altman D, Moher D. The PRISMA Extension Statement for Reporting of Systematic Reviews Incorporating Network Meta-Analyses of Healthcare Interventions: Checklist and Explanations. *Annals of Internal Medicine*. 2015 Jun 2;162(11):777-84.