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Ms. Guérin is an economist who specializes in the application of statistics and econometrics to health economics and outcomes research (HEOR) and epidemiology. Her areas of expertise include retrospective database analyses such as medical claims, electronic health records, and clinical trial data; economic modeling, such as cost-effectiveness and budget impact models; and design of chart review studies, surveys, and other prospective studies. She has participated in the development of large clinical data registries and in the design of real-world evidence (RWE) studies to support regulatory submissions. Ms. Guérin has broad research and analytical experience in areas such as comparative effectiveness and cost effectiveness, development of prediction algorithms, assessment of disease prevalence and incidence, evaluation of burden of illness, productivity loss, treatment patterns, analysis of patient-reported outcomes (PROs), safety/tolerability analyses, discrete choice experiments, and patient experience studies. She has also supported many pharmaceutical companies in the development of HEOR planning and RWE generation plans. Ms. Guérin has conducted health care research across many therapeutic areas, including oncology, hematology, dermatology, gastroenterology, rheumatology, neurology, psychiatry, endocrinology, cardiology and circulatory diseases, and respiratory diseases. She publishes frequently and is the coauthor of over 100 research papers published in numerous peer-reviewed journals and presented at a variety of scientific conferences.

## **EDUCATION**

- 2005–2008 M.S., economics (*honors*), Université de Sherbrooke, Quebec  
*Concentration: Pharmacoeconomics/Econometrics*
- 2002–2005 B.S., economics (*honors*), Co-op Program, Université de Sherbrooke, Quebec

## **KEY MEMBERSHIPS**

- 2022–Present Springer Healthcare Ltd., London, *Editorial Board Member*

## **WORK EXPERIENCE**

- 2005–Present Analysis Group/Group d'analyse, Montreal  
*Managing Principal (2020–Present)*  
*Vice President (2014–2020)*  
*Senior Economist (2010–2013)*  
*Economist (2006–2009)*  
*Intern (2005–2006)*
- 2004 Quebec Revenue Agency, Ste-Foy (Agence Revenu Québec, Ste-Foy)  
*Intern in Economic and Fiscal Studies*
- 2004 Ministry of Economic and Regional Research and Development, Quebec  
(Ministère du Développement économique et régional et de la recherche, Québec)  
*Intern; conducted research on entrepreneurship in Quebec*
- 2003 Ministry of Economic and Regional Research and Development, Quebec  
(Ministère du Développement économique et régional et de la recherche, Québec)  
*Intern; performed structural analysis; researched promotion of R&D*

## PUBLICATIONS

### 2023

Shadman M, Manzoor BS, Sail K, Tuncer HH, Allan JN, Ujjani C, Emechebe N, Kamalakar R, Coombs CC, Leslie L, Barr PM, Brown JR, Eyre TA, Rampotas A, Schuh A, Lamanna N, Skarbnik A, Roeker LE, Bannerji R, Eichhorst B, Fleury I, Davids MS, Alhasani H, Jiang D, Hill BT, Schuster SJ, Brander DM, Pivneva I, Burne R, **Guérin A**, Mato AR. Treatment Discontinuation Patterns for Patients With Chronic Lymphocytic Leukemia in Real-World Settings: Results From a Multi-Center International Study. *Clin Lymphoma Myeloma Leuk*. 2023 Jul;23(7):515-526. doi: 10.1016/j.clml.2023.03.010. Epub 2023 Mar 24.

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Sharma P, Falk GW, Bhor M, Ozbay AB, Latremouille-Viau D, **Guérin A**, Shi S, Elvekrog MM, Limburg P. Healthcare Resource Utilization and Costs Among Patients With Gastroesophageal Reflux Disease, Barrett's Esophagus, and Barrett's Esophagus-Related Neoplasia in the United States. *J Health Econ Outcomes Res*. 2023 Mar 3;10(1):51-58. doi: 10.36469/001c.68191.

Schein J, Cloutier M, Gauthier-Loiselle M, Bungay R, **Guérin A**, Childress A. Symptoms associated with ADHD/treatment-related adverse side effects and their impact on quality of life and work productivity in adults with ADHD. *Curr Med Res Opin*. 2023 Jan;39(1):149-159. doi: 10.1080/03007995.2022.2122228. Epub 2022 Sep 30.

### 2022

Davids MS, Manzoor B, Hazra N, Fang H, Ravelo A, Han F, **Guérin A**, Sail K, Shapouri S, Shadman M. The Economic Impact of Treatment Sequences for Chronic Lymphocytic Leukemia in the United States: A Cost of Care and Budget Impact Model of Venetoclax Plus Obinutuzumab Sequences. *J Clin Pathways*. 2022;8(5):36-46. doi:10.25270/jcp.2022.06.1.

Schein J, Cloutier M, Gauthier-Loiselle M, Bungay R, **Guérin A**, Childress A. Reasons for Treatment Changes in Children and Adolescents with Attention-Deficit/Hyperactivity Disorder: A Chart Review Study. *Adv Ther*. 2022 Dec;39(12):5487-5503. doi: 10.1007/s12325-022-02329-5. Epub 2022 Oct 11.

Gagnon-Sanschagrín P, Schein J, Urganus A, Serra E, Liang Y, Musingarimi P, Cloutier M, **Guérin A**, Davis LL. Identifying individuals with undiagnosed post-traumatic stress disorder in a large United States civilian population - a machine learning approach. *BMC Psychiatry*. 2022 Sep 29;22(1):630. doi: 10.1186/s12888-022-04267-6.

Schein J, Childress A, Adams J, Gagnon-Sanschagrín P, Maitland J, Qu W, Cloutier M, **Guérin A**. Treatment patterns among children and adolescents with attention-deficit/hyperactivity disorder in the United States - a retrospective claims analysis. *BMC Psychiatry*. 2022 Aug 18;22(1):555. doi: 10.1186/s12888-022-04188-4.

Atallah EL, Maegawa R, Latremouille-Viau D, Rossi C, **Guérin A**. Chronic Myeloid Leukemia: Part II-Cost of Care Among Patients in Advanced Phases or Later Lines of Therapy in Chronic Phase in the United States from a Commercial Perspective. *J Health Econ Outcomes Res*. 2022 Aug 4;9(2):30-36.

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Peacock WF, Slatkin N, Gagnon-Sanschagrin P, Maitland J, **Guérin A**, Joseph G. Opioid-Induced Constipation: Cost Impact of Approved Medications in the Emergency Department. *Adv Ther.* 2022 May;39(5):2178-2191. doi: 10.1007/s12325-022-02090-9. Epub 2022 Mar 17.

Michalopoulos SN, Gauthier-Loiselle M, Aigbogun MS, Serra E, Bungay R, Clynes D, Cloutier M, Kahle E, **Guérin A**, Farag YMK, Wish JB. Patient and Care Partner Burden in CKD Patients With and Without Anemia: A US-Based Survey. *Kidney Med.* 2022 Mar 7;4(4):100439. doi: 10.1016/j.xkme.2022.100439.

Schein J, Adler LA, Childress A, Cloutier M, Gagnon-Sanschagrin P, Davidson M, Kinkead F, **Guérin A**, Lefebvre P. Economic burden of attention-deficit/hyperactivity disorder among children and adolescents in the United States: a societal perspective. *J Med Econ.* 2022 Jan-Dec;25(1):193-205. doi: 10.1080/13696998.2022.2032097.

## 2021

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Chen L, Ionescu-Ittu R, Romdhani H, **Guérin A**, Kessler P, Borentain M, Friend K, DeSouza M, Sato N. Disease Management and Outcomes in Patients Hospitalized for Acute Heart Failure in Japan. *Cardiol Ther.* 2021 Jun;10(1):211-228. doi: 10.1007/s40119-021-00212-y. Epub 2021 Feb 20.

Gagnon-Sanschagrin P, Liang Y, Sanon M, Oberdhan D, **Guérin A**, Cloutier M. Excess Healthcare Costs in Patients with Autosomal Dominant Polycystic Kidney Disease by Renal Dysfunction Stage. *J Med Econ.* 2021 Jan-Dec;24(1):193-201. doi: 10.1080/13696998.2021.1877146.

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## 2020

Glick B, **Guérin A**, Ayyagari R, Lin T, Jacobson A, Joseph G, Kircik L. Re: Wu JJ, Hansen JB, Patel DS, et al. Effectiveness comparison and incremental cost-per-responder analysis of calcipotriene 0.005%/betamethasone dipropionate 0.064% foam vs. halobetasol 0.01%/tazarotene 0.045% lotion for plaque psoriasis: a matching-adjusted indirect comparative analysis. *J Med Econ.* 2020;23(6):641-649. *J Med Econ.* 2020 Dec;23(12):1499-1500. doi: 10.1080/13696998.2020.1835305. Epub 2020 Nov 6.

Aigbogun MS, Cloutier M, Gauthier-Loiselle M, **Guérin A**, Ladouceur M, Baker RA, Grundman M, Duffy RA, Hartry A, Gwin K, Fillit H. Real-World Treatment Patterns and Characteristics Among Patients with Agitation and Dementia in the United States: Findings from a Large, Observational, Retrospective Chart Review. *J Alzheimers Dis.* 2020;77(3):1181-1194. doi: 10.3233/JAD-200127.

Shah NR, Bhor M, Latremouille-Viau D, Kumar Sharma V, Puckrein GA, Gagnon-Sanschagrín P, Khare A, Kumar Singh M, Serra E, Davidson M, Xu L, **Guérin A**. Vaso-occlusive crises and costs of sickle cell disease in patients with commercial, Medicaid and Medicare Insurance - The perspective of private and public payers. *J Med Econ* 2020 Nov;23(11):1345-1355. doi: 10.1080/13696998.2020.1813144.

Greene SJ, Triana TS, Ionescu-Ittu R, Burne RM, **Guérin A**, Borentain M, Kessler PD, Tugcu A, DeSouza MM, Felker GM, Chen L. In-Hospital Therapy for Heart Failure With Reduced Ejection Fraction in the United States. *JACC Heart Fail.* 2020 Nov;8(11):943-953. doi: 10.1016/j.jchf.2020.05.013. Epub 2020 Aug 12.

Cloutier M, Manceur AM, **Guérin A**, Aigbogun MS, Oberdhan D, Gauthier-Loiselle M. The societal economic burden of autosomal dominant polycystic kidney disease in the United States. *BMC Health Serv Res.* 2020 Feb 18;20(1):126. doi: 10.1186/s12913-020-4974-4.

## 2019

Cloutier M, Gauthier-Loiselle M, Gagnon-Sanschagrín P, **Guérin A**, Hartry A, Baker RA, Duffy R, Gwin K, Sanon Aigbogun M. Institutionalization risk and costs associated with agitation in Alzheimer's disease. *Alzheimers Dement (NY).* 2019 Nov 23;5:851-861. doi: 10.1016/j.trci.2019.10.004. eCollection 2019.

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Ionescu-Ittu R, Shang A, Velde NV, **Guérin A**, Lin Y, Shi L, Shi S, Qayum N. Second-line rituximab-bendamustine versus rituximab-gemcitabine-oxaliplatin in diffuse large B-cell lymphoma in the real world. *J Comp Eff Res.* 2019 Oct;8(13):1067-1075. doi: 10.2217/cer-2019-0062. Epub 2019 Aug 27.

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Gauthier G, Mucha L, Shi S, **Guérin A**. Economic burden of relapse/recurrence in patients with major depressive disorder. *J Drug Assess*. 2019 May 24;8(1):97-103.

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## 2018

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## LANGUAGES

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