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Mr. Lefebvre specializes in the application of biostatistics and economics of health outcomes research. He has conducted and directed numerous studies in pharmacoconomics, epidemiology, and health outcomes research in a variety of therapeutic areas such as anemia, asthma, cardiovascular diseases, chronic obstructive pulmonary disease, diabetes, genetic syndrome, hematology, hypertension, infectious diseases, myelodysplastic syndromes, neurological disorders, obesity, oncology, renal diseases, respiratory diseases, and women's health. His recent work in the health care sector includes numerous clinical trials and medical claims data analyses to investigate resource utilization patterns, patient-reported quality of life, clinical effectiveness, direct medical and indirect productivity costs of a disease burden, and cost-effectiveness associated with the use of pharmaceuticals.

His extensive research is reflected in over 100 peer-reviewed publications in prominent clinical and health economics journals, such as *Neurology*, *Journal of Allergy and Clinical Immunology*, *Journal of the American Society of Nephrology*, *Cancer*, *Hypertension*, *American Journal of Managed Care*, *Journal of Managed Care Pharmacy*, *Value in Health*, and *PharmacoEconomics*. His scientific research has also resulted in numerous presentations at health care conferences as well as presentations to the FDA and CMS, and has included several high-profile studies publicized in the media, including a recent article on the economic burden of vasomotor symptoms in post-menopausal women cited in *The Wall Street Journal* blog *Pharmalot*.

Mr. Lefebvre has also served as a peer reviewer for several journals, including *CHEST*, *Annals of Oncology*, *Clinical Journal of the American Society of Nephrology*, *Allergy & Asthma Proceedings*, *Journal of Managed Care Pharmacy*, *American Journal of Managed Care*, *Value in Health*, *PharmacoEconomics*. He is also a member of the International Society of Pharmacoepidemiology and the International Society of Pharmacoconomics and Outcomes Research. Prior to joining Analysis Group, Mr. Lefebvre was an economist with the Québec Ministry of Finance.

EDUCATION

2001 M.A., economics, Laval University, Québec, Canada
1998 B.Sc., mathematics, Laval University, Québec, Canada

PROFESSIONAL EXPERIENCE

- 2001–Present Groupe d'analyse/Analysis Group, Montréal, Canada
Managing Principal (2016–Present)
Vice President (2008–2016)
Senior Economist and Manager (2004–2007)
Economist and Associate (2001–2003)
- 2000–2001 Ministry of Finance in Québec, Québec, Canada
Economist
- 1998–2000 Department of Economics, Laval University, Québec, Canada
Research and Teaching Assistant

PROFESSIONAL AFFILIATIONS

Journal Peer Reviewer, *CHEST*, *Annals of Oncology*, *Acta Oncologica*, *Clinical Journal of the American Society of Nephrology*, *Nephrology Dialysis Transplantation*, *Allergy & Asthma Proceedings*, *Journal of Managed Care Pharmacy*, *American Journal of Managed Care*, *PLOS ONE*, *Value in Health*, *Pharmacoeconomics*, *Expert Review of Pharmacoeconomics & Outcomes Research*, *Current Medical Research Opinion*, and *Journal of Medical Economics*

Member, International Society of Pharmacoeconomics and Outcomes Research

JOURNAL PUBLICATIONS

- Desai U, Kharat A, Hess CN, Milentijevic D, Laliberte F, Zuckerman P, Benson J, Lefebvre P, Hiatt WR, Bonaca MP. Healthcare resource utilization and costs of major atherothrombotic vascular events among patients with peripheral artery disease after revascularization. *Journal of Medical Economics* 2021 03; 24(1): 402-409.
- Freedland SJ, Li S, Pilon D, Bhak RH, Narkhede S, Lefebvre P, Young-Xu Y. Medication patterns of abiraterone acetate plus prednisone or enzalutamide and PSA progression in veterans with metastatic castration-resistant prostate cancer. *Current Medical Research and Opinion* 2021 02: 1-14. doi: 10.1080/03007995.2021.1888704.
- Cheng WY, Satija A, Cheung HC, Hill K, Wert T, Laliberté F, Lefebvre P. Persistence to hypomethylating agents and clinical and economic outcomes among patients with myelodysplastic syndromes. *Hematology* 2021 02; 26(1): 261-270. doi: 10.1080/16078454.2021.1889161.
- Freedland SJ, Pilon D, Bhak RH, Lefebvre P, Li S, Young-Xu Y. Predictors of survival, healthcare resource utilization, and healthcare costs in veterans with non-metastatic castration-resistant prostate cancer. *Urologic Oncology: Seminars and Original Investigations* 2020 12; 38(12): 930.e913-930.e921. doi: <https://doi.org/10.1016/j.urolonc.2020.07.002>.
- Chow W, Donga P, Côté-Sergent A, Rossi C, Lefebvre P, Lafeuille M-H, Hardy H, Emond B. Treatment Patterns and Predictors of Adherence in HIV Patients Receiving Single-or Multiple-Tablet Darunavir, Cobicistat, Emtricitabine, and Tenofovir Alafenamide. *Patient Preference and Adherence* 2020 12; 14: 2315-2326.

- Zhdanava M, Kuvadia H, Joshi K, Daly E, Pilon D, Rossi C, Morrison L, Lefebvre P, Nelson C. Economic burden of treatment-resistant depression in privately insured US patients with co-occurring anxiety disorder and/or substance use disorder. *Current Medical Research and Opinion* 2020 10: 1. e-pub ahead of print 2020/10/31. doi: 10.1080/03007995.2020.1844645.
- Huang Q, Emond B, Lafeuille M, Gupta D, Lefebvre P, Sundaram M, Mato A. Healthcare resource utilization and costs associated with first-line ibrutinib compared to chemoimmunotherapy treatment among Medicare beneficiaries with chronic lymphocytic leukemia. *Current Medical Research and Opinion* 2020 10: 1-10. doi: 10.1080/03007995.2020.1835851.
- Manceur AM, Ding Z, Muser E, Obando C, Voelker J, Pilon D, Kinkead F, Lafeuille MH, Lefebvre P. Burden of Crohn's disease in the United States: long-term healthcare and work-loss related costs. *Journal of Medical Economics* 2020 Jul 14;1-10. doi: 10.1080/13696998.2020.1789649.
- Zhdanava M, Kuvadia H, Joshi K, Daly E, Pilon D, Rossi C, Morrison L, Lefebvre P, Nelson C. Economic Burden of Treatment-Resistant Depression in Privately Insured U.S. Patients with Physical Conditions. *Journal of Managed Care & Specialty Pharmacy* 2020 06; 0(0): 1-12. doi: 10.18553/jmcp.2020.20017.
- Hudesman DP, Chakravarty SD, Emond B, Ellis LA, Lefebvre P, Sadik K, Scher JU. Healthcare resource utilization and costs associated with inflammatory bowel disease among patients with chronic inflammatory diseases: a retrospective cohort study. *BMC Rheumatology* 2020 04; 4(1): 16. doi: 10.1186/s41927-020-0115-2.
- Chow W, Donga P, Côté-Sergent A, Rossi C, Lefebvre P, Lafeuille M-H, Emond B, Hardy H. An assessment of weight change associated with the initiation of a protease or integrase strand transfer inhibitor in patients with Human Immunodeficiency Virus. *Current Medical Research and Opinion* 2020 Mar: 1-1. doi: 10.1080/03007995.2020.1775074.
- El Khoury AC, Pilon D, Morrison L, Shak N, Llaneza A, Kim E, Lefebvre P. Projecting the Long-Term Economic Impact of Once-Monthly Paliperidone Palmitate Versus Oral Atypical Antipsychotics in Medicaid Patients with Schizophrenia. *Journal of Managed Care & Specialty Pharmacy* 2020 Feb; 26(2): 176-185. e-pub ahead of print 2020/02/06; doi: 10.18553/jmcp.2020.26.2.176.
- Patel C, Emond B, Lafeuille MH, Cote-Sergent A, Lefebvre P, Tandon N, El Khoury AC. Real-World Analysis of Switching Patients with Schizophrenia from Oral Risperidone or Oral Paliperidone to Once-Monthly Paliperidone Palmitate. *Drugs – Real World Outcomes*. 2020 03; 7(1):19-29. e-pub ahead of print 2019/12/02; doi: 10.1007/s40801-019-00172-9.
- Benson C, Emond B, Lefebvre P, Lafeuille M-H, Côté-Sergent A, Tandon N, Chow W, Dunn K. Rapid Initiation of Antiretroviral Therapy Following Diagnosis of Human Immunodeficiency Virus Among Patients with Commercial Insurance Coverage. *Journal of Managed Care & Specialty Pharmacy*. 2020 02; 26(2):129-141. doi: 10.18553/jmcp.2019.19175.
- Benson C, Emond B, Romdhani H, Lefebvre P, Côté-Sergent A, Shohoudi A, Tandon N, Chow W, Dunn K. Long-Term Benefits of Rapid Antiretroviral Therapy Initiation in Reducing Medical and Overall Health Care Costs Among Medicaid-Covered Patients with Human Immunodeficiency Virus. *Journal of Managed Care & Specialty Pharmacy*. 2020 02; 26(2):117-128. doi: 10.18553/jmcp.2019.19174.

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- Manceur AM, Durkin M, Kharat A, Bookhart B, Lafeuille MH, Pilon D, Fakih I, Lefebvre P. Costs associated with renal and cardiovascular events among patients with type 2 diabetes mellitus and nephropathy: a cost model based on the CREDENCE clinical trial. *Current Medical Research and Opinion* 2020 Jan 9: 1-8. e-pub ahead of print 2020/01/10; doi: 10.1080/03007995.2019.1708285.
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- Emond B, El Khoury AC, Patel C, Pilon D, Morrison L, Zhdanava M, Lefebvre P, Tandon N, Joshi K. Real-world outcomes post-transition to once-every-3-months paliperidone palmitate in patients with schizophrenia within US commercial plans. *Current Medical Research and Opinion*. 2019 03; 35(3):407-416. doi: <http://dx.doi.org/10.1080/03007995.2018.1560220>.
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- Williams P, Kavati A, Pilon D, Xiao Y, Zhdanava M, Balp MM, Lefebvre P, Ortiz B, Hernandez-Trujillo V. Health care burden and treatment patterns in commercially insured children with chronic idiopathic/spontaneous urticaria: A real-world study in the United States. *Allergy and Asthma Proceedings*. 2018 05; 39(3): 201-211. E-pub ahead of print 2018/03/09; doi: 10.2500/aap.2018.39.4129.
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