

INFECTIOUS DISEASES PUBLICATIONS 2024

1. Meier-Stephenson V, Hawkes MT, Burton C, et al. A phase 1 randomized controlled trial of a peptide-based group A streptococcal vaccine in healthy volunteers. *Trials*. 2024;25(1):781. doi:10.1186/s13063-024-08634-4 **(Meier-Stephenson V)**
2. Jerlström-Hultqvist J, Gallot-Lavallée L, Salas-Leiva DE, et al. A unique symbiosome in an anaerobic single-celled eukaryote. *Nat Commun*. 2024;15(1):9726. doi:10.1038/s41467-024-54102-7 **(Dacks JB)**
3. Garland A, Li N, Sligl W, et al. Adjudication of Codes for Identifying Sepsis in Hospital Administrative Data by Expert Consensus*. *Critical Care Medicine*. 2024;52(12):1845-1855. doi:10.1097/CCM.0000000000006432 **(Sligl W)**
4. Hosseini-Moghaddam SM, Kothari S, Humar A, et al. Adjunctive glucocorticoid therapy for *Pneumocystis jirovecii* pneumonia in solid organ transplant recipients: A multicenter cohort, 2015-2020. *American Journal of Transplantation*. 2024;24(4):653-668. doi:10.1016/j.ajt.2023.11.003 **(Kabbani D)**
5. Patel NH, Lucko A, Vachon A, et al. Assessment of HBV variants and novel viral and immune biomarkers in chronic hepatitis B patients with metabolic dysfunction associated steatotic liver disease. *Journal of Viral Hepatitis*. 2024;31(10):582-591. doi:10.1111/jvh.13979 **(Doucette KE)**
6. Coleman BL, Gutmanis I, Bondy SJ, et al. Canadian health care providers' and education workers' hesitance to receive original and bivalent COVID-19 vaccines. *Vaccine*. 2024;42(24):126271. doi:10.1016/j.vaccine.2024.126271 **(Harrison R)**
7. Meier-Stephenson V, Drebot MA, Dimitrova K, et al. Case Series of Jamestown Canyon Virus Infections with Neurologic Outcomes, Canada, 2011–2016. *Emerg Infect Dis*. 2024;30(5). doi:10.3201/eid3005.221258 **(Meier-Stephenson V)**
8. Zhanel GG, Dhami R, Baxter M, et al. Ceftolozane/Tazobactam treatment for patients with hospital-acquired and ventilatory-associated bacterial pneumonia in Canada in 2022–2024: results from the CLEAR registry. *Expert Review of Anti-infective Therapy*. 2024;22(12):1221-1228. doi:10.1080/14787210.2024.2405930 **(Cervera C)**
9. Riopel ND, Long R, Heffernan C, et al. Characterization of *Mycobacterium orygis*, *Mycobacterium bovis*, and *Mycobacterium caprae* Infections in Humans in Western Canada. *The Journal of Infectious Diseases*. 2024;230(4):e789-e797. doi:10.1093/infdis/jiae124 **(Cooper R)**
10. More KJ, Kaur H, Simpson AGB, Spiegel FW, Dacks JB. Contractile vacuoles: a rapidly expanding (and occasionally diminishing?) understanding. *European Journal of Protistology*. 2024;94:126078. doi:10.1016/j.ejop.2024.126078 **(Dacks JB)**

11. Fernández-García OA, Hernandez C, Robbins M, Kabbani D, Doucette K, Cervera C. Cytomegalovirus surveillance after antiviral prophylaxis in CMV mismatched transplant patients: Does recurrent cytomegalovirus DNAemia impact patient survival? *Transplant Infectious Dis.* 2024;26(4):e14292. doi:10.1111/tid.14292 **(Fernández-García OA, Kabbani D, Doucette K, Cervera C)**
12. Figueroa GB, D'souza S, Pereira HS, et al. Development of a single-domain antibody to target a G-quadruplex located on the hepatitis B virus covalently closed circular DNA genome. *Journal of Medical Virology.* 2024;96(6):e29692. doi:10.1002/jmv.29692 **(Meier-Stephenson V)**
13. Saito S, Shahbaz S, Osman M, et al. Diverse immunological dysregulation, chronic inflammation, and impaired erythropoiesis in long COVID patients with chronic fatigue syndrome. *Journal of Autoimmunity.* 2024;147:103267. doi:10.1016/j.jaut.2024.103267 **(Sligl W)**
14. Boodman C, Garcia OF, Kabbani D, et al. Donor-Derived *Bartonella quintana* Infection in Solid Organ Transplantation: An Emerging Public Health Issue With Diagnostic Challenges. *Open Forum Infectious Diseases.* 2024;11(8):ofae381. doi:10.1093/ofid/ofae381 **(García O, Kabbani D, Doucette K)**
15. Chou S, Alain S, Cervera C, et al. Drug Resistance Assessed in a Phase 3 Clinical Trial of Maribavir Therapy for Refractory or Resistant Cytomegalovirus Infection in Transplant Recipients. *The Journal of Infectious Diseases.* 2024;229(2):413-421. doi:10.1093/infdis/jiad293 **(Cervera C)**
16. Sachar Y, Congly SE, Burak KW, et al. Epidemiology, Treatment Patterns and Survival in Canadian Patients With Chronic Hepatitis B-Related Hepatocellular Carcinoma. *Journal of Viral Hepatitis.* 2024;31(11):739-745. doi:10.1111/jvh.13989 **(Doucette K)**
17. Klinger CM, Jimenez-Ruiz E, Mourier T, et al. Evolutionary analysis identifies a Golgi pathway and correlates lineage-specific factors with endomembrane organelle emergence in apicomplexans. *Cell Reports.* 2024;43(2):113740. doi:10.1016/j.celrep.2024.113740 **(Dacks JB)**
18. More KJ, Kaufman JGG, Dacks JB, Manna PT. Evolutionary origins of the lysosome-related organelle sorting machinery reveal ancient homology in post-endosome trafficking pathways. *Proc Natl Acad Sci USA.* 2024;121(43):e2403601121. doi:10.1073/pnas.2403601121 **(Dacks JB)**
19. Milovanovic L, Singh G, Townsend D, Nagendran J, Sligl W. Extracorporeal life support for severe leptospirosis: Case series and narrative review. *Journal of the Association of Medical Microbiology and Infectious Disease Canada.* 2024;9(3):173-182. doi:10.3138/jammi-2023-0033 **(Sligl W)**
20. Hammond KM, Kabbani D, Doucette KE, et al. How does the antimicrobial stewardship provider role affect prospective audit and feedback acceptance for restricted antibiotics in a Canadian tertiary-care center? *Infect Control Hosp Epidemiol.* 2024;45(2):234-236.

doi:10.1017/ice.2023.152 (Kabbani D, Doucette KE, Chen JZ)

21. Belga S, Hernandez C, Kabbani D, Cervera C. Incidence of valganciclovir-related leukopenia and neutropenia in solid organ transplant recipients at high risk of cytomegalovirus disease. *Transplant Infectious Dis.* 2024;26(2):e14227. doi:10.1111/tid.14227 (Kabbani D, Cervera C)
22. Leeies M, Doucette K, Dufault B, et al. Increased Infectious Risk Donor Status and Equity-Relevant Predictors of Organ Donation Organization Approach and Caregiver Consent for Deceased Organ Donation in a Canadian Province (2015–2021). *Clinical Transplantation.* 2024;38(12):e70058. doi:10.1111/ctr.70058 (Doucette K)
23. Gutmanis I, Sanni A, McGeer A, et al. Level of patient contact and Impact of Event scores among Canadian healthcare providers during the COVID-19 pandemic. *BMC Health Serv Res.* 2024;24(1):947. doi:10.1186/s12913-024-11426-w (Harrison R)
24. Kilcommons SJ, Hammal F, Opgenorth DL, et al. Midodrine for the early liberation from vasopressor support in the ICU (LIBERATE): a feasibility study. *Pilot Feasibility Stud.* 2024;10(1):147. doi:10.1186/s40814-024-01577-2 (Sligl W)
25. Dinh T, Ross J, James S, et al. Misattribution bias of COVID-19 hospitalizations in Alberta using an admission algorithm. *Journal of the Association of Medical Microbiology and Infectious Disease Canada.* 2024;9(4):274-283. doi:10.3138/jammi-2024-0011 (Smith S, O'Neil C, McFarlane A, Lin M)
26. Quigley N, Binnie A, Baig N, et al. Modelling the potential increase in eligible participants in clinical trials with inclusion of community intensive care unit patients in Alberta, Canada: a decision tree analysis. *Can J Anesth/J Can Anesth.* 2024;71(3):390-399. doi:10.1007/s12630-023-02669-y (Sligl WI)
27. Tworek KB, Ma CH, Opgenorth D, et al. Nonsteroidal anti-inflammatory drugs for analgesia in intensive care units: a survey of Canadian critical care physicians. *Can J Anesth/J Can Anesth.* 2024;71(10):1388-1396. doi:10.1007/s12630-024-02800-7 (Sligl WI)
28. Furgason CC, Smirnova AV, Dacks JB, Dunfield PF. Phytoplankton ecology in the early years of a boreal oil sands end pit lake. *Environmental Microbiome.* 2024;19(1):3. doi:10.1186/s40793-023-00544-3 (Dacks JB)
29. Thornton CS, Waddell BJ, Congly SE, et al. Porcine-derived pancreatic enzyme replacement therapy may be linked to chronic hepatitis E virus infection in cystic fibrosis lung transplant recipients. *Gut.* 2024;73(10):1702-1711. doi:10.1136/gutjnl-2023-330602 (Doucette K)
30. Pott H, LeBlanc JJ, ElSherif M, et al. Predicting major clinical events among Canadian adults with laboratory-confirmed influenza infection using the influenza severity scale. *Sci Rep.* 2024;14(1):18378. doi:10.1038/s41598-024-67931-9 (Smith S)
31. Gutmanis I, Coleman BL, Ramsay K, et al. Psychological distress among healthcare providers during the COVID-19 pandemic: patterns over time. *BMC Health Serv Res.*

2024;24(1):1214. doi:10.1186/s12913-024-11577-w **(Harrison R)**

32. Rennert-May E, Leal J, Zhang Z, et al. Rates of post procedural prophylactic antibiotic use following cardiac implantable electronic device insertion and the impact on surgical site infections in Alberta, Canada. *Antimicrob Resist Infect Control*. 2024;13(1):147. doi:10.1186/s13756-024-01512-3 **(Smith S)**
33. Farmer G, Sikdar KC, Lo T, et al. Real-world evidence of sotrovimab effectiveness for preventing severe outcomes in patients with COVID-19: A quality improvement propensity-matched retrospective cohort study of a pan-provincial program in Alberta, Canada. *International Journal of Infectious Diseases*. 2024;146:107136. doi:10.1016/j.ijid.2024.107136 **(Doucette K, Saxinger L, Joffe AM)**
34. Fischer K, Langley JM, Harrison R, et al. Recent Vaccination Against SARS-CoV-2 Is Associated with Less Severe Disease in Working-Age Adults. *IJERPH*. 2024;21(11):1501. doi:10.3390/ijerph21111501 **(Harrison R)**
35. Richards TA, Eme L, Archibald JM, et al. Reconstructing the last common ancestor of all eukaryotes. *PLoS Biol*. 2024;22(11):e3002917. doi:10.1371/journal.pbio.3002917 **(Dacks JB)**
36. Huang Y, Long R, Ferrara G, et al. Refining the definition of miliary/disseminated tuberculosis in Canada. *International Journal of Infectious Diseases*. 2024;148:107238. doi:10.1016/j.ijid.2024.107238 **(Cooper R)**
37. Boodman C, Garcia OF, Kabbani D, Perez Cortes Villalobos A, Van Griensven J, Doucette K. Reply to Beechar et al. "Donor-Derived Infections: A Journey From Evidence to Policy." *Open Forum Infectious Diseases*. 2024;11(12):ofae671. doi:10.1093/ofid/ofae671 **(Garcia OF, Kabbani D, Doucette K)**
38. Krahn J, Gratrix J, Khan M, Meyer G, Smyczek P, Singh AE. Retrospective Cohort Study of Financial Incentives for Sexually Transmitted Infection Testing and Treatment in an Outreach Population in Edmonton, Canada, 2018–2019. *Sexual Trans Dis*. 2025;52(1):37-42. doi:10.1097/OLQ.0000000000002068 **(Singh AE)**
39. Hillier E, Anderson S, Sligl W, Rudnisky CJ. Routine history and physical examinations prior to cataract surgery are not beneficial. *Canadian Journal of Ophthalmology*. 2024;59(5):307-310. doi:10.1016/j.jcjo.2023.11.010 **(Sligl W)**
40. Leeies M, Collister D, Christie E, et al. Sexual and gender minority relevant policies in Canadian and United States organ and tissue donation and transplantation systems: An opportunity to improve equity and safety. *American Journal of Transplantation*. 2024;24(1):11-19. doi:10.1016/j.ajt.2023.08.027 **(Doucette K)**
41. Thornton CS, Boechler N, Desai V, et al. The Canadian Bronchiectasis and Nontuberculous Mycobacteria Registry: a study protocol. *ERJ Open Res*. 2024;10(6):00412-02024. doi:10.1183/23120541.00412-2024 **(Cooper R)**

42. Almohaya A, Fersovich J, Weyant RB, et al. The impact of colonization by multidrug resistant bacteria on graft survival, risk of infection, and mortality in recipients of solid organ transplant: systematic review and meta-analysis. *Clinical Microbiology and Infection*. 2024;30(10):1228-1243. doi:10.1016/j.cmi.2024.03.036 **(Garcia O, Doucette K, Cervera C, Kabbani D)**
43. Xia Y, Caya C, Morin V, et al. The population-level impact of introducing rapid diagnostic tests on syphilis transmission in Canadian arctic communities – a mathematical modeling study. *The Lancet Regional Health - Americas*. 2024;37:100845. doi:10.1016/j.lana.2024.100845 **(Singh AE)**
44. Shinde AP, Kučerová J, Dacks JB, Tachezy J. The retromer and retriever systems are conserved and differentially expanded in parabasalids. *Journal of Cell Science*. 2024;137(13):jcs261949. doi:10.1242/jcs.261949 **(Dacks JB)**
45. Saito S, Bozorgmehr N, Sligl W, Osman M, Elahi S. The Role of Coinhibitory Receptors in B Cell Dysregulation in SARS-CoV-2–Infected Individuals with Severe Disease. *The Journal of Immunology*. 2024;212(10):1540-1552. doi:10.4049/jimmunol.2300783 **(Sligl W)**
46. Azarfar G, Sun Y, Pasini E, et al. Using machine learning for personalized prediction of longitudinal coronavirus disease 2019 vaccine responses in transplant recipients. *American Journal of Transplantation*. Published online December 2024:S1600613524007469. doi:10.1016/j.ajt.2024.11.033 **(Kabbani D)**