

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 7 (8) AUGUST 2023



<p><u>AIR QUALITY</u></p> <ul style="list-style-type: none"> • Indoor air • Outdoor air • Radon, Other 	<p><u>CLIMATE CHANGE</u></p> <ul style="list-style-type: none"> • Extreme weather • Flooding • Sea level rise • Wildfires, Other 	<p><u>DISEASES, VECTORS, PESTS</u></p> <ul style="list-style-type: none"> • COVID-19 • Animal vectors • Insect vectors • Pests, Other
<p><u>FOOD</u></p> <ul style="list-style-type: none"> • Food safety • Food security • Growing food, Other 	<p><u>BUILT ENVIRONMENT</u></p> <ul style="list-style-type: none"> • Green & blue spaces • Housing • Noise • Planning & design • Transportation, Other 	<p><u>PUBLIC HEALTH FUNDAMENTALS</u></p> <ul style="list-style-type: none"> • Communication • Health promotion • Health impact assessment • Health equity • One Health, Other
<p><u>WATER</u></p> <ul style="list-style-type: none"> • Drinking water • Recreational water • Small water systems • Wastewater, Other 	<p><u>NON-CLIMATE RELATED DISASTERS</u></p> <ul style="list-style-type: none"> • Earthquakes • Marine • Terrestrial, Other 	<p><u>OTHER TOPICS</u></p> <ul style="list-style-type: none"> • Cannabis products • Tobacco, nicotine products • Ionizing, non-ionizing radiation • Personal services establishments, Other
<p><u>SPECIFIC POPULATIONS</u> (children, Indigenous Peoples, older adults, other)</p>		

Environmental Health (EH) Research Scan: Aims and Scope

NCCEH's EH Research Scan aims to expand awareness of topics in environmental health, in line with [NCCEH's vision](#) to be the indispensable online resource for environmental health practitioners and policy-makers across Canada. This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases. Not all links are open access; some are abstract links where paid journal subscription is required.

EDITOR PICKS

Pulsed electric fields: a potential alternative technology for parasite control in fish [evidence brief].

Tina Chen, Knowledge Translation Scientist, NCCEH

“High-intensity pulsed electric fields is one of the non-thermal food processing technologies that holds the most promise in its ability to inactivate parasites in fish and retain sensory properties comparable to fresh fish, which is desired by consumers...”



Preventing indoor overheating [subject guide].

National Collaborating Centre for Environmental Health

“The resources listed are intended to help environmental public health professionals improve their understanding of infrastructural and behavioural risk factors that contribute to indoor overheating in Canada and the strategies that can mitigate these risks.”



Antimicrobial resistance and food safety: a public health challenge [webinar]. Jovana Kovacevic

“This webinar explores the use of antimicrobials in the food processing industry, selective pressures linked to emergence and spread of foodborne microorganisms that result in reduced susceptibilities to antimicrobials, as well as the co-selection and cross-resistance phenomena through the lens of L. monocytogenes.”



Project, prepare, and protect: using climate data and tools to understand future extreme heat [webinar].

Gregory Richardson, Elly Fard, Elaine Barrow, Craig Brown

“To help public health authorities understand how vulnerability may change, this session will outline how the web portal, ClimateData.ca, can be used to explore projections for extreme heat. We will also introduce the new projections...”



Health impact assessment of air pollution in Canada: recent findings on mortality, morbidity, and monetized costs [webinar].

Angelos T Anastasopoulos and Mathieu Rouleau

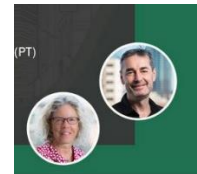
“Health Canada, in collaboration with Environment and Climate Change Canada, recently completed a health impact assessment (health burden analysis) that quantified the mortality, morbidity, and monetized costs attributed to air pollution from a comprehensive list of transportation, industry, and residential sectors...”



City player – neighborhood-scale citizen engagement [healthy built environment webinar].

Chris Gibbs, Ursula Eicker

“The webinar will begin with a look at Concordia’s research work on creating digital twins, given by Prof. Ursula Eicker. Then Chris Gibbs will give a demo of the City Player prototype, followed by a deep-dive on how it has been built, and explaining the next steps involved in making the pilot project...”



Interventions to mitigate heat-related harms among vulnerable populations [topic page]. Public Health Ontario

“The objective of this review was to identify interventions at the public health, regional, community, or provider-level that may be used to prevent, mitigate or respond to health impacts of heat events, specifically for populations most vulnerable to heat...”



Heat Alert and Response Systems (HARS). Public Health Ontario

Wildfire, smoke, and health [topic page].

National Collaborating Centre for Environmental Health

“The resources assembled here are intended to assist public health practitioners, decision-makers, and the public by providing guidance regarding public health impacts, community preparedness, risk communication and response to wildfires and wildfire smoke.”



July research scan [blog].

National Collaborating Centre for Environmental Health

This monthly Research Scan highlights recent environmental health publications by topic and provides easy access to article abstracts and report summaries to support public health professionals, researchers, planners, students, and others working in public health.



NCCEH eNews (July 2023): Avian influenza (H5N1) and the continuing outbreak...

National Collaborating Centre for Environmental Health

This monthly eNews highlights recent environmental health publications, research scans, webinars and other events and resources.



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED PUBLICATIONS

1. Chen T. **Pulsed electric fields: a potential alternative technology for parasite control in fish [evidence brief]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 Aug 23. Available from: <https://ncceh.ca/resources/evidence-reviews/pulsed-electric-fields-potential-alternative-technology-parasite-control>.
2. National Collaborating Centre for Environmental Health. **Preventing indoor heating [subject guide]**. Vancouver, BC: NCCEH; 2023 Aug 23. Available from: <https://ncceh.ca/resources/subject-guides/preventing-indoor-overheating>.

Webinars

1. Anastasopoulos AT, Rouleau M. **Health impacts of air pollution from transportation, industry and residential sources in Canada [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 Sep 23. Available from: <https://ncceh.ca/events/upcoming-webinars/health-impacts-air-pollution-transportation-industry-and-residential>.
2. Gibbs C, Eicker U. **City player – neighborhood-scale citizen engagement [healthy built environment webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 Sep 21. Available from: <https://ncceh.ca/events/upcoming-webinars>.
3. Kovacevic J. **Antimicrobial resistance and food safety: a public health challenge [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 Aug 30. Available from: <https://ncceh.ca/events/upcoming-webinars/antimicrobial-resistance-and-food-safety-public-health-challenge>.
4. Richardson G, Fard E, Barrow E, Brown C. **Project, prepare, and protect: using climate data and tools to understand future extreme heat [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 Aug 16. Available from: <https://ncceh.ca/events/upcoming-webinars/project-prepare-and-protect-using-climate-data-and-tools-understand-future>.

Resources

1. National Collaborating Centre for Environmental Health. **July research scan**. Vancouver, BC: NCCEH; 2023 Jul 20. Available from: <https://ncceh.ca/sites/default/files/2023-07/NCCEH%20Research%20Scan%20-202307.pdf>.
2. National Collaborating Centre for Environmental Health. **NCCEH eNews (July 2023): Reducing tick-related risks through improved design and maintenance in outdoor environments; more...** Vancouver, BC: NCCEH; 2023 Jul 20. Available from: https://app.cyberimpact.com/newsletter-view-online?ct=TabAqziyJQHKjTWqnZAxGh8rapeZa6eyidMAUaBIYxzm2NAZwWQMvq7s0B95QEqQBuhQN3_qR_Yx3giCwzKQ~~.

1. AIR QUALITY

INDOOR AIR

1. Andersen HV, Bramming Jørgensen R, Gunnarsen L. **Impact of smoking and candle burning on air concentrations of PCB in a PCB contaminated indoor environment.** Atmos Environ. 2023 Sep 15;309:119922. Available from: <https://www.sciencedirect.com/science/article/pii/S1352231023003485>.
2. Falkenberg T, Wasser F, Zacharias N, Mutters N, Kistemann T. **Effect of portable HEPA filters on COVID-19 period prevalence: an observational quasi-interventional study in German kindergartens.** BMJ Open. 2023;13(7):e072284. Available from: <https://bmjopen.bmj.com/content/bmjopen/13/7/e072284.full.pdf>.
3. US Environmental Protection Agency. **Research on DIY Air Cleaners to Reduce Wildfire Smoke Indoors.** Washington, DC: US EPA; 2023 Aug 7. Available from: <https://www.epa.gov/air-research/research-diy-air-cleaners-reduce-wildfire-smoke-indoors>.
4. Wheeler A, Reisen F, Roulston C, Dennekamp M, Goodman N, Johnston F. **Evaluating portable air cleaner effectiveness in residential settings to reduce exposures to biomass smoke resulting from prescribed burns.** Public Health Research & Practice. 2023 Jul. Available from: <https://www.phrp.com.au/issues/online-early/residential-indoor-air-quality-and-hepa-cleaner-use/>.

OUTDOOR AIR

1. Anastasopoulos AT, Rouleau M. **Health impacts of air pollution from transportation, industry and residential sources in Canada [webinar].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2023 Sep 23; Available from: <https://ncceh.ca/events/upcoming-webinars/health-impacts-air-pollution-transportation-industry-and-residential>.
2. Eminson K, Cai YS, Chen Y, Blackmore C, Rodgers G, Jones N, et al. Does air pollution confound associations between environmental noise and cardiovascular outcomes? - A systematic review. Environ Res. 2023 Sep 1;232:116075. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935123008678>.
3. Gross M. Breathing wildfire smoke. Curr Biol. 2023;33(14):R743-R5. Available from: <https://doi.org/10.1016/j.cub.2023.07.004>.
4. Health Canada. Health impacts of air pollution from transportation, industry and residential sources in Canada. Ottawa, OM: Health Canada; 2023 Feb. Available from: https://publications.gc.ca/collections/collection_2023/sc-hc/H144-112-2022-eng.pdf.
5. Jia Y, Lin Z, He Z, Li C, Zhang Y, Wang J, et al. Effect of Air Pollution on Heart Failure: Systematic Review and Meta-Analysis. Environ Health Perspect. 2023;131(7):076001. Available from: <https://ehp.niehs.nih.gov/doi/abs/10.1289/EHP11506>.

6. Michanowicz DR, Leventhal OM, Domen JK, Williams SR, Lebel ED, Hill LAL, et al. Natural gas odorants: A scoping review of health effects. *Curr Environ Health Rep*. 2023 Jul 25. Available from: <https://doi.org/10.1007/s40572-023-00403-w>.
7. Nathvani R, Vishwanath D, Clark SN, Alli AS, Muller E, Coste H, et al. **Beyond here and now: Evaluating pollution estimation across space and time from street view images with deep learning.** *Sci Total Environ*. 2023;166168. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969723047939>.
8. Pitt TM, Rowe BH, Hicks A. You exhaust me! Air pollution exposure near schools during pick-up and drop-off times. *Paediatrics & Child Health*. 2023;28(5):275-7. Available from: <https://doi.org/10.1093/pch/pxac113>.
9. Reuters. Canadian wildfire emissions double previous record as flames rage on: Reuters; 2023 Aug 3. Available from: [https://www.reuters.com/world/americas/canadian-wildfire-emissions-double-previous-record-flames-rage-2023-08-03/#:~:text=OTTAWA%2C%20Aug%20%20\(Reuters\),EU's%20Copernicus%20Atmospheric%20Monitoring%20Service](https://www.reuters.com/world/americas/canadian-wildfire-emissions-double-previous-record-flames-rage-2023-08-03/#:~:text=OTTAWA%2C%20Aug%20%20(Reuters),EU's%20Copernicus%20Atmospheric%20Monitoring%20Service).
10. Rodulfo-Cárdenas R, Ruiz-Sobremazas D, Biosca-Brull J, Cabré M, Blanco J, López-Granero C, et al. The influence of environmental particulate matter exposure during late gestation and early life on the risk of neurodevelopmental disorders: A systematic review of experimental evidences. *Environ Res*. 2023 Nov 1;236:116792. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935123015967>.
11. Shakoor A, Farooq TH, Arif MS, Shahzad SM. Unprecedented wildfires in Canada and transboundary effects of carbon monoxide pollution. *Natural Hazards*. 2023 Aug 5. Available from: <https://doi.org/10.1007/s11069-023-06117-4>.
11. Tokuda N, Ishikawa R, Yoda Y, Araki S, Shimadera H, Shima M. Association of air pollution exposure during pregnancy and early childhood with children's cognitive performance and behavior at age six. *Environ Res*. 2023 Nov 1;236:116733. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935123015372>.
12. Wan X, Wei S, Wang Y, Jiang J, Lian X, Zou Z, Li J. The association between maternal air pollution exposure and the incidence of congenital heart diseases in children: A systematic review and meta-analysis. *Sci Total Environ*. 2023 Sep 20;892:164431. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969723030528>.

RADON, OTHER

1. Cholowsky NL, Chen MJ, Selouani G, Pett SC, Pearson DD, Danforth JM, et al. Consequences of changing Canadian activity patterns since the COVID-19 pandemic include increased residential radon gas exposure for younger people. *Sci Rep*. 2023 Apr 7;13(1):5735. Available from: <https://doi.org/10.1038/s41598-023-32416-8>.

2. FOOD

FOOD SAFETY

1. Allwood JG, Wakeling LT, Post LS, Bean DC. Food safety considerations in the production of traditional fermented products: Japanese rice koji and miso. *Journal of Food Safety*. 2023;43(4):e13048. Available from: <https://onlinelibrary.wiley.com/doi/abs/10.1111/jfs.13048>.
2. Charlebois S, Rankin A, Music J. Mitigating Food Waste—Are “Best Before” Dates Past Their Due Dates? *Food Prot Trends*. 2023;43(4):352-7.
3. Dietrich J, Hammerl JA, Johne A, Kappenstein O, Loeffler C, Nöckler K, et al. Impact of climate change on foodborne infections and intoxications. *J Health Monit*. 2023 Jun;8(Suppl 3):78-92. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10278375/>.
4. Doctor T, Gelda KS, Nesbitt A, MacKinnon MC, Roberts A, Reid-Smith RJ. Exploration of the known foodborne enteric health risks associated with plant-based and/or simulated meat, poultry, and seafood products: A scoping review protocol. Guelph, ON: University of Guelph; 2023. Available from: <https://atrium.lib.uoguelph.ca/items/1da77dd5-f9c0-4c3b-bc0d-54cbaf8dc74e>.
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6. Hernández-Ortiz A, Bouchard É, Snyman LP, Al-Adhami BH, Gouin G-G, Neelin M, Jenkins EJ. *Toxoplasma gondii* and related Sarcocystidae parasites in harvested caribou from Nunavik, Canada. *International Journal for Parasitology: Parasites and Wildlife*. 2023 Aug 1;21:246-54. Available from: <https://www.sciencedirect.com/science/article/pii/S2213224423000500>.
7. Jinadasa BKKK, Uddin S, Fowler SW. Chapter Three - Microplastics (MPs) in marine food chains: Is it a food safety issue? In: Özogul F, editor. *Adv Food Nutr Res*: Academic Press; 2023. p. 101-40. Available from: <https://www.sciencedirect.com/science/article/pii/S1043452622000523>.
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9. Kawecka AK, Cholewa-Wójcik AS. Determinants of the Quality and Safety of Food Packaging. *Materials Science and Engineering in Food Product Development* 2023. p. 377-92. Available from: <https://onlinelibrary.wiley.com/doi/abs/10.1002/9781119860594.ch19>.
10. Osasah V, Whitfield Y, Adams J, Danish A, Mather R, Aloosh M. An Outbreak of *Salmonella* Typhimurium Infections Linked to Ready-To-Eat Tofu in Multiple Health Districts — Ontario, Canada, May–July 2021. *Can Commun Dis Rep*. 2023 Jul/Aug;49(7/8). Available from: <https://www.canada.ca/content/dam/phac-aspc/documents/services/reports-publications/canada-communicable-disease-report-ccdr/monthly-issue/2023-49/issue-7-8-july-august-2023/ccdrv49i78a02-eng.pdf>.
11. Paradis A, Beaudet M-F, Boisvert Moreau M, Huot C. Investigation of a *Salmonella* Montevideo Outbreak Related to the Environmental Contamination of a Restaurant Kitchen Drainage System, Québec, Canada, 2020–2021. *J Food Prot*. 2023 2023/07/18/:100131. Available from: <https://www.sciencedirect.com/science/article/pii/S0362028X23068151>.

12. Schwartz-Narbonne H, Xia C, Shalin A, Whitehead HD, Yang D, Peaslee GF, et al. Per- and Polyfluoroalkyl Substances in Canadian Fast Food Packaging. *Environ Sci Technol Lett*. 2023 Apr 11;10(4):343-9. Available from: <https://doi.org/10.1021/acs.estlett.2c00926>.
13. Vancouver Coastal Health. Extreme heat events, food establishments and protecting health. Steps for preparation and action. Vancouver, BC: Vancouver Coastal Health; 2023 Jul 6. Available from: <https://www.vch.ca/en/media/20316>.
14. Wiatrowski M, Rosiak E, Czarniecka-Skubina E. Surface Hygiene Evaluation Method in Food Trucks as an Important Factor in the Assessment of Microbiological Risks in Mobile Gastronomy. *Foods*. 2023;12(4):772. Available from: <https://www.mdpi.com/2304-8158/12/4/772>.
15. Xiang Q, Huangfu L, Dong S, Ma Y, Li K, Niu L, Bai Y. Feasibility of atmospheric cold plasma for the elimination of food hazards: Recent advances and future trends. *Crit Rev Food Sci Nutr*. 2023 Aug 7;63(20):4431-49. Available from: <https://doi.org/10.1080/10408398.2021.2002257>.
16. Ziani K, Ioniță-Mîndrican C-B, Mititelu M, Neacșu SM, Negrei C, Moroșan E, et al. Microplastics: A Real Global Threat for Environment and Food Safety: A State of the Art Review. *Nutrients*. 2023;15(3):617. Available from: <https://www.mdpi.com/2072-6643/15/3/617>.

FOOD SECURITY

1. Anderson KK, Clemens KK, Le B, Zhang L, Comeau J, Tarasuk V, Shariff SZ. Household food insecurity and health service use for mental and substance use disorders among children and adolescents in Ontario, Canada. *Can Med Assoc J*. 2023;195(28):E948-E55. Available from: <https://www.cmaj.ca/content/cmaj/195/28/E948.full.pdf>.
2. McIntyre L. Tackling household food insecurity to protect the mental health of children and youth in Canada. *Can Med Assoc J*. 2023;195(28):E960-E1. Available from: <https://www.cmaj.ca/content/cmaj/195/28/E960.full.pdf>.

GROWING FOOD, OTHER

1. Muñoz JP, Silva-Pavez E, Carrillo-Beltrán D, Calaf GM. Occurrence and exposure assessment of glyphosate in the environment and its impact on human beings. *Environ Res*. 2023 Aug 15;231:116201. Available from: <https://www.sciencedirect.com/science/article/pii/S0013935123010022>.

3. WATER

DRINKING WATER

1. Manitoba Health. Lead in Tap Water and Preparing Infant Formula. Winnipeg, MB: Government of Manitoba; 2023 Jul 17. Available from:

<https://www.gov.mb.ca/health/publichealth/environmentalhealth/lead/docs/infant-formula-factsheet.pdf>.

2. Moghaddam-Ghadimi S, Tam A, Khan UT, Gora SL. How might climate change impact water safety and boil water advisories in Canada? FACETS. 2023;8:1-21. Available from: <https://www.facetsjournal.com/doi/abs/10.1139/facets-2022-0223>.

RECREATIONAL WATER

1. Zurawell R, Graydon J. Cyanobacterial Blooms and Recreational Water Quality Monitoring in Canada. North American Lake Management Society (NALMS). 2023 Jul(Summer):18-24. Available from: <https://www.nalms.org/wp-content/uploads/2023/07/43-2-5.pdf>.

SMALL WATER SYSTEMS

WASTEWATER, OTHER

1. Cheng L, Dhiyebi HA, Varia M, Atanas K, Srikanthan N, Hayat S, et al. Omicron COVID-19 Case Estimates Based on Previous SARS-CoV-2 Wastewater Load, Regional Municipality of Peel, Ontario, Canada. *Emerg Infect Dis*. 2023 Aug;29(8):1580-8. Available from: <https://doi.org/10.3201/eid2908.221580>.
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4. CLIMATE CHANGE

EXTREME WEATHER

1. Bayram H, Rice MB, Abdalati W, Elci MA, Mirsaeidi M, Annesi-Maesano I, et al. Impact of Global Climate Change on Pulmonary Health: Susceptible and Vulnerable Populations. *Annals of the American Thoracic Society*. 2023;20(8):1088-95. Available from: <https://www.atsjournals.org/doi/abs/10.1513/AnnalsATS.202212-996CME>.

2. Boudreault J, Campagna C, Chebana F. Machine and deep learning for modelling heat-health relationships. *Sci Total Environ*. 2023 Sep 20;892:164660. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969723032837>.
3. British Columbia Centre for Disease Control. Climate projection data for health regions. Vancouver, BC: BCCDC; 2023 Aug. Available from: <https://bccdc.shinyapps.io/climatedata/>.
4. Lavigne E, Maltby A, Côté J-N, Weinberger KR, Hebbert C, Vicedo-Cabrera AM, Wilk P. The effect modification of extreme temperatures on mental and behavior disorders by environmental factors and individual-level characteristics in Canada. *Environ Res*. 2023 Feb 15;219:114999. Available from: <https://www.sciencedirect.com/science/article/pii/S001393512202326X>.
5. Li D, Zhang Y, Li X, Zhang K, Lu Y, Brown RD. Climatic and meteorological exposure and mental and behavioral health: A systematic review and meta-analysis. *Sci Total Environ*. 2023 Sep 20;892:164435. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969723030565>.
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7. Ontario Agency for Health Protection and Promotion (Public Health Ontario). Heat Alert and Response Systems (HARS) Toronto, ON: Queen's Printer for Ontario; 2023 Aug. Available from: <https://www.publichealthontario.ca/-/media/Documents/H/2023/heat-alert-response-systems-hars.pdf?cldee=cGlgJi8kRIUQqW4zk-Nxnlw3TY-OLUndgGr7TTrNdrStqgCLATO9QjcXrI9Oudcr&recipientid=contact-c7ccc0a5b4a2e611837d0050569e0009-918a4ecd43364dadba34130e7d3652da&esid=48558c22-6f3b-ee11-8189-005056ad61b6>.
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11. Vancouver Coastal Health. Heat check-in support framework for non-governmental organizations. Vancouver, BC: Vancouver Coastal Health; 2023 Jun. Available from: <https://www.vch.ca/en/media/13701>.
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FLOODING

SEA LEVEL RISE

WILDFIRES, OTHER

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