

ENVIRONMENTAL HEALTH RESEARCH SCAN

VOL 7 (11) NOVEMBER 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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

Rapid Review: What is the evidence for the effectiveness of public health interventions, and their potential unintended consequences, to reduce the direct and indirect health impacts of exposure to wildfires, including wildfire smoke and combined heat-wildfire smoke events?

National Collaborating Centre for Methods and Tools and
National Collaborating Centre for Environmental Health



National Collaborating Centre
for Methods and Tools
Centre de collaboration nationale
des méthodes et outils



National Collaborating Centre
for Environmental Health
Centre de collaboration nationale
en santé environnementale

“There is limited evidence evaluating the effectiveness of public health interventions on reducing impacts of exposure to wildfires and their smoke: air cleaning systems likely improve indoor air quality during wildfire events, but there is some evidence of harmful impacts of executing evacuation orders and staying indoors.”

2024 Core competencies for public health in Canada.

National Collaborating Centres for Public Health

“The National Collaborating Centres for Public Health (referred to as the NCCs) are committed to seeking input from a broad and diverse range of perspectives that make up the public health community in Canada. This project will engage and collaborate with key public health partners across the country to develop core competencies aligned with current needs and priorities of the public health system.”



Bed bugs [subject guide].

National Collaborating Centre for Environmental Health

“The resources listed here are intended to provide information on bed bug identification and prevention, advice on managing infestations in specific settings, the possible health effects of bed bugs, and the use of various control measures, including pesticides.”



Focus on health in the balance of energy retrofits and indoor air quality [evidence brief].

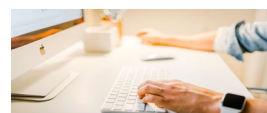
Anne-Marie Nicol, KT Scientist, National Collaborating Centre for Environmental Health

“Energy renovations often change a home’s ventilation patterns, as buildings are tightened or sealed to reduce energy loss. This can have a direct consequence for indoor air quality (IAQ). One contaminant in particular, radon gas, appears to be especially impacted by energy retrofits.”



Webinars - NCCEH

- One Health Approach to Risk Assessment (OHARA)
- INTerventions, Equity, Research and Action in Cities Team (INTERACT): Research and knowledge translation for scaling our understanding of health and the built environment



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED NCCEH RESOURCES

1. Calvin S. **One Health Approach to Risk Assessment (OHARA) [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2023 Dec 6. Available from: <https://ncceh.ca/events/upcoming-webinars/one-health-approach-risk-assessment-ohara>.
2. Fuller D. **INTerventions, Equity, Research and Action in Cities Team (INTERACT): Research and knowledge translation for scaling our understanding of health and the built environment [Healthy Built Environment webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health (NCCEH); 2023 Nov 22. Available from: <https://ncceh.ca/events/upcoming-webinars/interventions-equity-research-and-action-cities-team-interact-research-and>.
3. National Collaborating Centre for Environmental Health. **NCCEH eNews (October 2023): Can we reduce inevitable exposures to chemicals of concern?; more...** Vancouver, BC: NCCEH; 2023 Oct 21. Available from: <https://app.cyberimpact.com/newsletter-view-online?ct=Y73JpsQVzP3gtv2eFQMrAtdJBETU3tUWMMfEuTIFOuSZoKjKyGFDY2HzSJUZfeivRlaUKO5PxUSnM52vfx7w~~>.
4. National Collaborating Centre for Environmental Health. **Focus on health in the balance of energy retrofits and indoor air quality [evidence brief]**. Vancouver, BC: NCCEH; 2022 Nov 23. Available from: <https://ncceh.ca/resources/evidence-briefs/focus-health-balance-energy-retrofits-and-indoor-air-quality>.
5. National Collaborating Centre for Environmental Health. **October research scan**. Vancouver, BC: NCCEH; 2023 Oct 19. Available from: <https://ncceh.ca/sites/default/files/2023-10/NCCEH%20Research%20Scan%20-202310.pdf>.
6. National Collaborating Centre for Environmental Health. **2024 Core competencies for public health in Canada [blog]**. Vancouver, BC: NCCEH; 2023 Oct 20. Available from: <https://ncceh.ca/resources/blog/2024-core-competencies-public-health-canada>.
7. National Collaborating Centre for Environmental Health. **Bed bugs [subject guide]**. Vancouver, BC: NCCEH; 2023 Nov 10. Available from: <https://ncceh.ca/resources/subject-guides/bed-bugs>.
8. National Collaborating Centre for Methods and Tools, National Collaborating Centre for Environmental Health. **Rapid Review: What is the evidence for the effectiveness of public health interventions, and their potential unintended consequences, to reduce the direct and indirect health impacts of exposure to wildfires, including wildfire smoke and combined heat-wildfire smoke events?** Winnipeg, MB and Vancouver, BC: NCCMT and NCCEH; 2023 Oct. Available from: <https://www.nccmt.ca/rapid-evidence-service/59>.

1. AIR QUALITY

INDOOR AIR

1. Adibi A, Barn P, Shellington EM, Harvard S, Johnson KM, Carlsten C. **HEPA Air Filters for Preventing Wildfire-related Asthma Complications, a Cost-Effectiveness Study**. *Am J Respir Crit Care Med*. 2023. Available from: <https://www.atsjournals.org/doi/abs/10.1164/rccm.202307-1205OC>.
2. Environmental Health Association of Canada. **In my everyday life Safe Household Products and Air Quality**. EHAC; 2023. Available from: <https://ehac-asec.ca/in-my-everyday-life-safe-household-products-and-air-quality/>.
3. Hobeika N, García-Sánchez C, Bluysen PM. **Assessing Indoor Air Quality and Ventilation to Limit Aerosol Dispersion: Literature Review**. *Buildings*. 2023;13(3):742. Available from: <https://www.mdpi.com/2075-5309/13/3/742>.
4. Reis N, Gaspar L, Paiva A, Sousa P, Machado N. **Effectiveness of Nonpharmacological Interventions in the Field of Ventilation: An Umbrella Review**. *Int J Environ Res Public Health*. 2023;20(7). Available from: <https://doi.org/10.3390/ijerph20075239>.
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OUTDOOR AIR

1. Alcayna T, Chandaria S, Kim J, O'Donnell D, Poole L. **Understanding the compound risk of heat, humidity and air pollution on human health: A scoping review**. Red Cross Red Crescent Climate Centre; 2023 Sep. Available from: <https://www.climatecentre.org/wp-content/uploads/RCCC-Heat-Humidity-AP-Scoping-Review-Final-4.pdf>.
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4. Marder ME. **Wildfire smoke toxicology and health effects**. In: Wexler PJ, editor. *Encyclopedia of Toxicology (Fourth Edition)*. Oxford: Academic Press; 2024. p. 845-51. Available from: <https://www.sciencedirect.com/science/article/pii/B9780128243152011581>.
5. Meng Q, Liu J, Shen J, Rosario ID, Lakey PSJ, Shiraiwa M, et al. **Fine Particulate Matter Metal Composition, Oxidative Potential, and Adverse Birth Outcomes in Los Angeles**. *Environ Health Perspect*. 2023;131(10):107012. Available from: <https://ehp.niehs.nih.gov/doi/abs/10.1289/EHP12196>.

RADON, OTHER

1. Canadian National Radon Proficiency Program. **2023 Intercomparison Report**. C-NRPP; 2023 Nov. Available from: <https://c-nrpp.ca/wp-content/uploads/2023/10/Digital-Device-Report-Oct-2023.pdf>.
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2. FOOD

FOOD SAFETY

1. Deeney M, Green R, Yan X, Dooley C, Yates J, Rolker HB, Kadiyala S. **Human health effects of recycling and reusing food sector consumer plastics: A systematic review and meta-analysis of life cycle assessments**. J Cleaner Production. 2023;397. Available from: <https://doi.org/10.1016/j.jclepro.2023.136567>.
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3. Jung J, Sekercioglu F, Young I. **Ready-to-eat Meat Plant Characteristics Associated with Food Safety Deficiencies During Regulatory Compliance Audits, Ontario, Canada**. J Food Prot. 2023;86(9):100135. Available from: <https://doi.org/10.1016/j.jfp.2023.100135>.
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GROWING FOOD, OTHER

1. Caxaj CS, Weiler AM, Martyniuk J. **Housing Conditions and Health Implications for Migrant Agricultural Workers in Canada: A Scoping Review.** Can J Nurs Res. 2023;8445621231203086. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/37844611>.
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3. WATER

DRINKING WATER

1. Canadian Standards Association. **The Municipal How-to Guide for CSA Community Water Standards.** Toronto, ON: CSA; 2022. Available from: https://www.csagroup.org/wp-content/uploads/CSAGroup-Municipal-WaterStandards-How-To-Guide.pdf?utm_medium=email&utm_source=mailchimp&utm_campaign=std-newsletter-09.23.

2. Cassivi A, Covey A, Rodriguez MJ, Guilherme S. **Domestic water security in the Arctic: A scoping review.** Int J Hyg Environ Health. 2023;247:114060. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/36413873>.
3. Foster K, Licko K. **Third party product certification for drinking water health effects.** Toxicol Mech Methods. 2023;1-5. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/37254444>.
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RECREATIONAL WATER

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SMALL WATER SYSTEMS

1. Rebellato S, Lee C, Gardner C, Kivilahti K, Wallace J, Hachborn D, et al. **Community Legionella outbreak linked to a cooling tower, 2022.** Can Commun Dis Rep. 2023;49(9):380-6. Available from: <https://www.canada.ca/content/dam/phac-aspc/documents/services/reports-publications/canada-communicable-disease-report-ccdr/monthly-issue/2023-49/issue-9-september-2023/ccdrv49i09a04-eng.pdf>.
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WASTEWATER, OTHER

4. CLIMATE CHANGE

EXTREME WEATHER

1. Acorn Canada. **Extreme heat and climate justice report**. New Westminster, BC: Acorn Canada; 2023 Sep. Available from: <https://acorncanada.org/wp-content/uploads/2023/09/National-Extreme-Heat-Report-2023-1.pdf>.
2. Adams QH, Chan EMG, Spangler KR, Weinberger KR, Lane KJ, Errett NA, et al. **Examining the Optimal Placement of Cooling Centers to Serve Populations at High Risk of Extreme Heat Exposure in 81 US Cities**. Public health reports (Washington, DC : 1974). 2023;138(6):955-62. Available from: <https://doi.org/10.1177/00333549221148174>.
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19. United Nations Environment Programme. **Adaptation Gap Report 2023. Underfinanced. Underprepared – Inadequate investment and planning on climate adaptation leaves world exposed**. UNEP; 2023 Nov. Available from: <https://www.unep.org/resources/adaptation-gap-report-2023>.

FLOODING

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SEA LEVEL RISE

WILDFIRES, OTHER

1. National Collaborating Centre for Methods and Tools, National Collaborating Centre for Environmental Health. **Rapid Review: What is the evidence for the effectiveness of public health interventions, and their potential unintended consequences, to reduce the direct and indirect health impacts of exposure to wildfires, including wildfire smoke and combined heat-wildfire smoke events?** Winnipeg, MB and Vancouver, BC: NCCMT and NCCEH; 2023 Oct. Available from: <https://www.nccmt.ca/rapid-evidence-service/59>.

5. BUILT ENVIRONMENT

GREEN & BLUE SPACES

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HOUSING

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NOISE

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PLANNING & DESIGN

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TRANSPORTATION, OTHER

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4. Williams T, Whitehurst DGT, Nelson T, Fuller D, Therrien S, Gauvin L, Winters M. **All ages and abilities cycling infrastructure, cycling activity, and perceived safety: Findings from a natural experiment study in three mid-sized Canadian cities.** Journal of Cycling and Micromobility Research. 2023;1:100005. Available from: <https://www.sciencedirect.com/science/article/pii/S2950105923000050>.

6. NON-CLIMATE RELATED DISASTERS

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