

ENVIRONMENTAL HEALTH RESEARCH SCAN

WITH COVID-19 SECTIONS

VOL 5 (7) JULY 2022



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 This research scan is not peer reviewed; it does not cover all research, news, and information, and NCCEH is not responsible for the accuracy of the content from media or databases.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

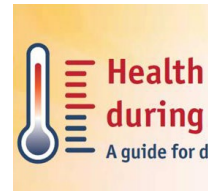
COVID-19 Publications are listed in the sections above and there are also **COVID-19 Additional Topics**.

EDITOR PICKS

Health checks during extreme heat events [guidance document].

National Collaborating Centre for Environmental Health

“This tool from the NCCEH was designed to help support people doing heat checks by providing all the key information and guidance in a 5-page package.” more



The unprecedented Pacific Northwest heatwave of June 2021 [preprint]

Sarah B Henderson (right), Scientific Director of Environmental Health Services at the BCCDC, and co-authors

“The impacts of this event were catastrophic. Estimates indicate at least 900 attributable deaths occurred across BC, WA and OR, likely the deadliest weather event in Canadian history.” More



Short-term exposure to wildfire smoke and pm2.5 and cognitive performance in a brain-training game: a longitudinal study of U.S. Adults

Sarah B Henderson (right), Scientific Director of Environmental Health Services at the BCCDC, and co-authors

“Our results indicate that PM2.5 and wildfire smoke were associated with reduced attention in adults within hours and days of exposure, but further research is needed to elucidate these relationships.”



Benzene contamination in sunscreen: Not worth getting burned [blog].

Kelsey James, Environmental Health Knowledge Translation Scientist, NCCEH

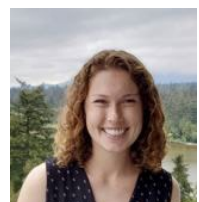
“This blog will describe the health effects of benzene exposure, discuss the current findings of benzene contamination in sunscreen products, and present opportunities for public health messaging around sunscreen use in the context of the potential risk of benzene exposure....” more



Monkeypox in personal service establishments: low risk, but know the signs [blog]

Leah Rosencrantz (right) and Angela Eykelbosh, Knowledge Translation Scientists, National Collaborating Centre for Environmental Health

“This blog provides an overview of the monkeypox outbreak in Canada and outlines key information for public health inspectors to address risk in personal service establishments and other public settings where there may be potential for transmission.”



[Climate change, coastal communities, and food from the sea \[blog\]](#)

Juliette O’Keeffe, Environmental Health, Knowledge Translation Scientist, NCCEH

“....Public health (PH) practitioners could play a crucial role in helping communities, in partnership with provincial and federal agencies, and local governments, to minimise the impacts of climate change on coastal food systems.”



[Legionella \[topic page\]](#)

National Collaborating Centre for Environmental Health

“Knowledge gaps remain on how climate change could affect risks of legionellosis but rising ambient temperature in a building’s cold-water system may affect Legionella survival and growth in pipes, fixtures and stored water. Increased cooling demand, supplied by more air conditioners, or use of fountains or water misters, could increase opportunities for exposure. The resources listed here” more



ncceh.ca

[Coastal waters, fresh water, and other untreated recreational water venues \[topic page\]](#)

National Collaborating Centre for Environmental Health

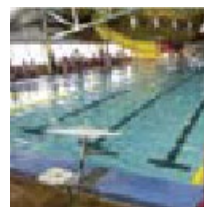
“The resources presented provide information on identifying physical, biological, and chemical hazards in recreational waters, and tools for monitoring and managing recreational waters to reduce the risks to users.”



[Pool, hot tubs and other treated recreation water venues \[topic page\].](#)

National Collaborating Centre for Environmental Health

“The resources presented provide information on guidelines and regulation of public pools and splash parks. We also provide some examples on how the provinces and territories are addressing risks from residential pools.”



[Climate change and Indigenous Peoples' health in Canada \[webinar\]](#)

Donna Atkinson and Leah Quinlan – held June 8, 2022

[Daily and hourly exposure to PM2.5 and wildfire smoke and cognitive performance in a brain-training game: A longitudinal study of US adults \[webinar\].](#) Stephanie Cleland - 2022 Jul 28.



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED NCCEH PUBLICATIONS

1. James K. **Benzene contamination in sunscreen: Not worth getting burned [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2022 Jul 20. Available from: <https://ncceh.ca/content/blog/benzene-contamination-sunscreen-not-worth-getting-burned>.
2. National Collaborating Centre for Environmental Health. **Health checks during extreme heat events [guidance document]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2022 Jun 22. Available from: <https://ncceh.ca/documents/guide/health-checks-during-extreme-heat-events>.
3. National Collaborating Centre for Environmental Health. **June research scan with COVID-19 sections [blog]**. Vancouver, BC: NCCEH; 2022 Jun 15. Available from: <https://ncceh.ca/content/blog/june-research-scan-covid-19-sections-0>.
4. National Collaborating Centre for Environmental Health. **Legionella [topic page]**. Vancouver, BC: NCCEH; 2022 Jun. Available from: <https://ncceh.ca/environmental-health-in-canada/health-agency-projects/legionella>.
5. National Collaborating Centre for Environmental Health. **NCCEH eNews (June 2021): Preventing injuries and deaths during extreme heat events; more...** Vancouver, BC: NCCEH; 2022 Jun 24. Available from: <https://tinyurl.com/25ytw2xu>.
6. National Collaborating Centre for Environmental Health. **Pools, hot tubs, and other treated recreational water venues [topic page]**. Vancouver, BC: NCCEH; 2022 Jul 20. Available from: <https://ncceh.ca/environmental-health-in-canada/health-agency-projects/pools-hot-tubs-and-other-treated-recreational>.
7. National Collaborating Centre for Environmental Health. **Coastal waters, fresh water and other untreated recreational water venues [topic page]**. Vancouver, BC: NCCEH; 2022 Jul 20. Available from: <https://ncceh.ca/environmental-health-in-canada/health-agency-projects/coastal-waters-fresh-water-and-other>.
8. O’Keeffe J. **Climate change, coastal communities, and food from the sea [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2022 Jul 20. Available from: <https://ncceh.ca/content/blog/climate-change-coastal-communities-and-food-sea>.
9. Rosencrantz L, Eykelbosh A. **Monkeypox in personal service establishments: Low risk, but know the signs [blog]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2022 Jun 22. Available from: <https://ncceh.ca/content/blog/monkeypox-personal-service-establishments>.

WEBINARS

1. Atkinson D, Quinlan L. **Climate change and Indigenous Peoples’ health in Canada [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2022 Jun 8. Available from: <https://ncceh.ca/content/webinar-recording-climate-change-and-indigenous-peoples-health-canada>.
2. Cleland S. **Daily and hourly exposure to PM2.5 and wildfire smoke and cognitive performance in a brain-training game: A longitudinal study of US adults [webinar]**. Vancouver, BC: National Collaborating Centre for Environmental Health; 2022 Jul 28. Available from: <https://ncceh.ca/content/ncceh-environmental-health-seminar-series>.

JOURNAL ARTICLES

1. Cleland SE, Wyatt LH, Wei L, Paul N, Serre ML, West JJ, et al. **Short-term exposure to wildfire smoke and PM2.5 and cognitive performance in a brain-training game: a longitudinal study of U.S. adults.** *Environ Health Perspect.* 2022;130(6):067005. Available from: <https://ehp.niehs.nih.gov/doi/abs/10.1289/EHP10498>.
2. White R, Anderson S, Booth J, Braich G, Draeger C, Fei C, et al. **The unprecedented Pacific Northwest heatwave of June 2021.** *Research Square.* 2022. Available from: https://assets.researchsquare.com/files/rs-1520351/v1_covered.pdf?c=1650995558.

INDIGENOUS ENVIRONMENTAL HEALTH

1. Ahmed F, Liberda EN, Solomon A, Davey R, Sutherland B, Tsuji LJS. **indigenous land-based approaches to well-being: The Amisk (Beaver) Harvesting Program in Subarctic Ontario, Canada.** *Int J Environ Res Public Health.* 2022;19(12):7335. Available from: <https://www.mdpi.com/1660-4601/19/12/7335>.
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4. Caughey A, Kilabuk P, Sanguya I, Doucette M, Jaw M, Allen J, et al. **Niqivut Silalu Asijjipalliajuq: Building a community-led food sovereignty and climate change research program in Nunavut, Canada.** *Nutrients.* 2022;14(8). Available from: <https://doi.org/10.3390/nu14081572>.
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8. Reed G, Brunet ND, McGregor D, Scurr C, Sadik T, Lavigne J, et al. **Toward Indigenous visions of nature-based solutions: an exploration into Canadian federal climate policy.** *Climate Policy (Earthscan).* 2022;22(4):514-33. Available from: <https://doi.org/10.1080/14693062.2022.2047585>.
9. Thomas A, Bohr Y, Hankey J, Oskalns M, Barnhardt J, Singoorie C. **How did Nunavummiut youth cope during the COVID-19 pandemic? A qualitative exploration of the resilience of Inuit youth leaders involved in the I-SPARX project.** *Int J Circumpolar Health.* 2022;81(1):2043577. Available from: <https://doi.org/10.1080/22423982.2022.2043577>.

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1. Ghezjeljeh A, Gutberlet J, Cloutier D. **Recent challenges and new possibilities with urban agriculture in Victoria, British Columbia.** *Can Geogr.* 2022;1. Available from: <https://doi.org/10.1111/cag.12783>.
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1. Barrable A, Booth D. **Disconnected: what can we learn from individuals with very low nature connection?** *Int J Environ Res Public Health.* 2022;19(13):8021. Available from: <https://www.mdpi.com/1660-4601/19/13/8021>.
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3. Falkowski TB, Jorgensen B, Rakow DA, Das A, Diemont SAW, Selfa T, et al. **“connecting with good people and good plants”: community gardener experiences in New York State During the COVID-19 pandemic.** *Frontiers in Sustainable Food Systems.* 2022;6. Available from: <https://www.frontiersin.org/article/10.3389/fsufs.2022.854374>.
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12. Zhong J, Liu W, Niu B, Lin X, Deng Y. **Role of Built Environments on Physical Activity and Health Promotion: A Review and Policy Insights.** *Frontiers in Public Health.* 2022;10. Available from: <https://www.frontiersin.org/articles/10.3389/fpubh.2022.950348/full>.

CHEMICAL AGENTS – METALS, GENERAL

General

1. Arctic Monitoring and Assessment Programme. **AMAP Assessment 2021: Mercury in the Arctic - Arctic Monitoring and Assessment Programme (AMAP).** Norway: Arctic Monitoring And Assessment Programme; 2022 2022-06-16. Available from: <https://policycommons.net/artifacts/2472703/amap-assessment-2021/>.
2. Ding N, Karvonen-Gutierrez CA, Mukherjee B, Calafat AM, Harlow SD, Park SK. **Per- and Polyfluoroalkyl Substances and Incident Hypertension in Multi-Racial/Ethnic Women: The Study of Women’s Health Across the Nation.** *Hypertension.* 2022;10.1161/HYPERTENSIONAHA.121.18809. Available from: <https://www.ahajournals.org/doi/abs/10.1161/HYPERTENSIONAHA.121.18809>.
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5. Michanowicz DR, Dayalu A, Nordgaard CL, Buonocore JJ, Fairchild MW, Ackley R, et al. **Home is Where the Pipeline Ends: Characterization of Volatile Organic Compounds Present in Natural**

- Gas at the Point of the Residential End User.** Environ Sci Tech. 2022. Available from: <https://doi.org/10.1021/acs.est.1c08298>.
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CHEMICAL AGENTS – PESTICIDES

CHEMICAL AGENTS – SHALE GAS

CHILDREN’S ENVIRONMENTAL HEALTH

1. Chen F, Tao C, Hamouda MA. **Children’s Exposure to Lead from Tap Water in Child Care Centers and Estimation of Blood Lead Levels.** Exposure and Health. 2022. Available from: <https://doi.org/10.1007/s12403-022-00493-1>.
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4. Prince SA, Lancione S, Lang JJ, Amankwah N, de Groh M, Jaramillo Garcia A, et al. **Examining the state, quality and strength of the evidence in the research on built environments and physical activity among children and youth: An overview of reviews from high income countries.** Health Place. 2022;76:102828. Available from: <https://doi.org/10.1016/j.healthplace.2022.102828>.
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CLIMATE CHANGE

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COVID-19,OMICRON – SEE NEXT PAGE

COVID-19 ADDITIONAL TOPICS & GUIDANCE



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GUIDANCE (for ‘Occupational Guidance’ – see separate topic heading)

Face Masks, Distancing, etc

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MULTI-UNIT BUILDINGS

OCCUPATIONAL GUIDANCE

Occupational

PUBLIC FACILITIES

Transportation (see separate category, 'Transit, Transportation')

SURVIVAL TIME

TRANSIT, TRANSPORTATION

TRANSMISSION

Singing, Wind Instruments, Theatre

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This document can be cited as: National Collaborating Centre for Environmental Health. Environmental health research scan. Vancouver, BC: NCCEH. 2021 December.

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