

ENVIRONMENTAL HEALTH RESEARCH SCAN

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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. "We focus on health risks associated with the physical environment and identify evidence-based interventions to mitigate those risks." This review is not official or 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. How to access the items? Click on the link related to each entry and it should take you to the item. Not all links are open access; some are abstract links where paid journal subscription is required.

EDITOR PICKS

Rising concern of tick-borne disease in Canada [blog]

Anne-Marie Nicol (pictured on right), Knowledge Translation Scientist, NCCEH, 2019

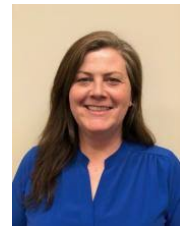
“...Controlling tick populations and minimizing contact with humans and companion animals are important tools for the prevention of Lyme disease as well as other new tick-borne diseases. This effort will require collaboration from a range of experts across public health, veterinary science, wildlife biology, landscape design and urban planning.”



Cyanobacteria and drinking water: Knowledge Exchange Group for environmental and public health in Canada

Juliette O’Keeffe (pictured on right), Knowledge Translation Scientist, NCCEH, 2019

“Following an initial review by the NCCEH on “Cyanobacteria and Drinking Water: Occurrence, Risks, Management and Knowledge Gaps for Public Health” we noted an interested in continuing the conversation to address some of the key knowledge and practice gaps identified. This group provides a forum for those working in public health and those involved in the management of drinking water to share information, discuss common problems and identify opportunities for collaborating on joint solutions.”



Glossary of health equity in the context of environmental public health practice

Karen Rideout and Dianne Oickle, 2019

“This glossary, rooted primarily in the Canadian context but drawing on lessons from elsewhere, describes environmental public health regulatory practice in relation to health equity, including approaches that practitioners can use to contribute to addressing the social determinants of health.”



Glossary of health equity concepts for public health action in the Canadian context

Dianne Oickle, Connie Clement, 2019

“This glossary defines key concepts related to health equity in public health practice as well as broad-level approaches for taking action on health inequities at a population health level. Exploring terminology in this way supports going beyond individual practitioner responsibility and shifts towards organisational accountability for action.”



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED STAFF PUBLICATIONS

NCCEH

1. Centre de collaboration nationale en santé environnementale. **mai Survol des publications du CCNSE [blogue]**. Vancouver, BC: Centre de collaboration nationale en santé environnementale; 2019 juin 5. Available from: <http://www.ccse.ca/content/mai-survol-des-publications-du-ccse>.
2. National Collaborating Center for Environmental Health. **May research scan [blog]**. Vancouver, BC: National Collaborating Center for Environmental Health; 2019 Jun 5. Available from: <http://www.ncceh.ca/content/may-research-scan>.
3. National Collaborating Center for Environmental Health. **Cyanobacteria - LinkedIn**. Vancouver, BC: National Collaborating Center for Environmental Health; 2019 05; Available from: <https://www.linkedin.com/groups/8779394/>.
4. Nicol A-M. **Préoccupation croissante au Canada quant aux maladies transmises par des tiques [blogue]**. Vancouver, BC: Centre de collaboration nationale en santé environnementale; 2019 juin 26. Available from: <http://www.ccse.ca/content/blog/pr%C3%A9occupation-croissante-au-canada-quant-aux-maladies-transmises-par-des-tiques>.
5. Nicol A-M. **Rising concern of tick-borne diseases in Canada [blog]**. Vancouver, BC: National Collaborating Center for Environmental Health; 2019 Jun 26. Available from: <http://www.ncceh.ca/content/blog/rising-concern-tick-borne-diseases-canada>.
6. O'Keefe J. **Cyanobacteria - Tapping into the risks to drinking water [blog]**. Vancouver, BC: National Collaborating Center for Environmental Health; 2019 May 21. Available from: <http://www.ncceh.ca/content/cyanobacteria-tapping-risks-drinking-water>.
7. O'Keefe J. **Les cyanobactéries et la qualité de l'eau potable [blogue]**. Vancouver, BC: Centre de collaboration nationale en santé environnementale; 2019 mai 21. Available from: <http://www.ccse.ca/content/blog/les-cyanobact%C3%A9ries-et-la-qualit%C3%A9-de-l%E2%80%99eau-potable>.
8. (NCCEH Environmental Health Seminar Series) Rahim T. **Calls to the British Columbia Drug and Poison Information Centre on the cusp of cannabis legalization [webinar]**. Vancouver, BC: British Columbia Centre for Disease Control; 2019 Jun 12. Available from: https://www.youtube.com/watch?v=ofsb_dt5Exw.

NCCDH

2. Oickle D, Clement C. **Glossary of health equity concepts for public health action in the Canadian context**. J Epidemiol Community Health. 2019:jech-2018-210851. Available from: <https://jech.bmj.com/content/jech/early/2019/02/14/jech-2018-210851.full.pdf>.
3. Rideout K, Oickle D. **Glossary of health equity in the context of environmental public health practice**. J Epidemiol Community Health. 2019:jech-2018-210843. Available from: <https://jech.bmj.com/content/jech/early/2019/06/06/jech-2018-210843.full.pdf>.

BCCDC

1. Afshari R, Bellinger D. **Chemical Risk without Concurrent External Exposure!** Asia Pac J Med Toxicol 2019;8:30-3. Available from: http://apjmt.mums.ac.ir/m/article_13171_50d97dcbc88ffde1292c38a06c07c1a7.pdf.

NCCEH e-News (French and English)

1. Centre de collaboration nationale en santé environnementale. **e-Nouvelles du CCNSE: Préoccupation croissante au Canada quant aux maladies transmises par des tiques : Articles de journaux sur les changements climatiques et les maladies infectieuses ; Un projet scientifique citoyen appelé eTick.ca ; plus...** Vancouver, BC: CCNSE; 2019 06 juin. Available from: <http://tinyurl.com/y5zsl32c>.
2. National Collaborating Center for Environmental Health. **NCCEH eNews: Rising concern of tick-borne diseases in Canada; Journal articles on climate change and infectious disease; A public platform for image-based identification of ticks; more...** . Vancouver, BC: NCCEH; 2019 06 Jun. Available from: <http://tinyurl.com/y4elymed>.

INDIGENOUS ENVIRONMENTAL HEALTH

1. Westman CN, Joly TL. **Oil Sands Extraction in Alberta, Canada: a Review of Impacts and Processes Concerning Indigenous Peoples.** Human Ecology: An Interdisciplinary Journal. 2019;47(2):233-43. Available from: <https://link.springer.com/article/10.1007/s10745-019-0059-6>.

AGRICULTURAL OPERATIONS

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BIOLOGICAL AGENTS

BUILT ENVIRONMENT

1. Bakolis I, Hammoud R, Smythe M, Gibbons J, Davidson N, Tognin S, et al. **Urban Mind: Using Smartphone Technologies to Investigate the Impact of Nature on Mental Well-Being in Real Time.** Bioscience. 2018;68(2):134-45. Available from: <https://doi.org/10.1093/biosci/bix149>.
2. Bentley R, Baker E, Simons K, Simpson JA, Blakely T. The impact of social housing on mental health: longitudinal analyses using marginal structural models and machine learning-generated weights. Int J Epidemiol. 2018;47(5):1414-22. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29947789>.
3. Corazon SS, Sidenius U, Poulsen DV, Gramkow MC, Stigsdotter UK. Psycho-Physiological Stress Recovery in Outdoor Nature-Based Interventions: A Systematic Review of the Past Eight Years of Research. Int J Environ Res Public Health. 2019;16(10):1711. Available from: <https://www.mdpi.com/1660-4601/16/10/1711>.
4. Couch S, Smalley HK. **Encouraging Equitable Bikeshare: Implications of Docked and Dockless Models for Spatial Equity.** 2019. Available from: <https://arxiv.org/pdf/1906.00129.pdf>.
5. Harshfield A, Manville C, Elmore N, Smith P, Rodriguez Rincon D, Hood C, et al. **A scoping study on the link between exposure to or interaction with the natural environment and mental health**

outcomes. Santa Monica, CA: RAND Corporation; 2019. Available from:

https://www.rand.org/pubs/research_reports/RR3122.html#related.

6. Kim C. **How to create vibrant transit supportive communities. A Typology & Evaluation Tool.** Calgary, AB: Pembina Institute; 2019 Apr. Available from: <https://www.pembina.org/pub/how-create-vibrant-transit-supportive-communities>.
7. Kingsley J, Foenander E, Bailey A. “You feel like you’re part of something bigger”: exploring motivations for community garden participation in Melbourne, Australia. *BMC Public Health*. 2019;19(1):N.PAG-N.PAG. Available from: <https://bmcpublihealth.biomedcentral.com/articles/10.1186/s12889-019-7108-3>.
8. McCormack GR, Cabaj J, Orpana H, Lukic R, Blackstaffe A, Goopy S, et al. **Evidence synthesis – A scoping review on the relations between urban form and health: a focus on Canadian quantitative evidence.** *Health Promotion and Chronic Disease Prevention in Canada : Research, Policy and Practice*. 2019;39(5). Available from: <https://doi.org/10.24095/hpcdp.39.5.03>.
9. Wendelboe-Nelson C, Kelly S, Kennedy M, Cherrie JW. **A Scoping Review of Mapping Research on Green Space and Associated Mental Health Benefits.** *Int J Environ Res Public Health*. 2019;16(12):2081. Available from: <https://www.mdpi.com/1660-4601/16/12/2081>.
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CHEMICAL AGENTS – METALS, GENERAL

1. Dietrich M, Wolfe A, Burke M, Krekeler MPS. The first pollution investigation of road sediment in Gary, Indiana: Anthropogenic metals and possible health implications for a socioeconomically disadvantaged area. *Environ Int*. 2019;128:175-92. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31059913>.
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5. Public Health Ontario. **Lead Exposure from Ayurvedic Medicines [fact sheet].** Toronto, ON: PHO; 2019 Feb. Available from: <https://www.publichealthontario.ca/-/media/documents/fact-sheet-lead-ayurveda.pdf?la=en>.

CHEMICAL AGENTS – PESTICIDES

CHEMICAL AGENTS – SHALE GAS

1. Bamber AM, Hasanali SH, Nair AS, Watkins SM, Vigil DI, Van Dyke M, et al. **A Systematic Review of the Epidemiologic Literature Assessing Health Outcomes in Populations Living near Oil and Natural Gas Operations: Study Quality and Future Recommendations.** *Int J Environ Res Public Health.* 2019;16(12). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31208070>.
2. Li L, Tan J, Wood DA, Zhao Z, Becker D, Lyu Q, et al. **A review of the current status of induced seismicity monitoring for hydraulic fracturing in unconventional tight oil and gas reservoirs.** *Fuel.* 2019;242:195-210. Available from: <https://www.sciencedirect.com/science/article/pii/S0016236119300201>.
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CHILDREN'S ENVIRONMENTAL HEALTH

1. Amster E, Lew Levy C. **Impact of Coal-fired Power Plant Emissions on Children's Health: A Systematic Review of the Epidemiological Literature.** *Int J Environ Res Public Health.* 2019;16(11). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/31195672>.
2. Flouri E, Papachristou E, Midouhas E. **The role of neighbourhood greenspace in children's spatial working memory.** *The British Journal Of Educational Psychology.* 2019;89(2):359-73. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6563484/>.
3. Keegan NL. **Children who say hand dryers 'hurt my ears' are correct: A real-world study examining the loudness of automated hand dryers in public places.** *Paediatrics & Child Health.* 2019. Available from: <https://doi.org/10.1093/pch/pxz046>.
4. Kirjavainen PV, Karvonen AM, Adams RI, Täubel M, Roponen M, Tuoresmäki P, et al. **Farm-like indoor microbiota in non-farm homes protects children from asthma development.** *Nat Med.* 2019. Available from: <https://doi.org/10.1038/s41591-019-0469-4>.
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6. Njati SY, Maguta MM. **Lead-based paints and children's PVC toys are potential sources of domestic lead poisoning - A review.** *Environmental Pollution (Barking, Essex: 1987).* 2019;249:1091-105. Available from: <https://www.sciencedirect.com/science/article/pii/S0269749118332196>.
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9. Ruiz-Hermosa A, Álvarez-Bueno C, Cavero-Redondo I, Martínez-Vizcaíno V, Redondo-Tébar A, Sánchez-López M. **Active Commuting to and from School, Cognitive Performance, and Academic Achievement in Children and Adolescents: A Systematic Review and Meta-Analysis of Observational Studies.** *Int J Environ Res Public Health.* 2019;16(10):1839. Available from: <https://www.mdpi.com/1660-4601/16/10/1839>.

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CLIMATE CHANGE

1. Cook PA, Howarth M, Wheeler CP. **Biodiversity and Health in the Face of Climate Change: Implications for Public Health.** In: Marselle MR, Stadler J, Korn H, Irvine KN, Bonn A, editors. *Biodiversity and Health in the Face of Climate Change.* Cham: Springer International Publishing; 2019. p. 251-81. Available from: https://doi.org/10.1007/978-3-030-02318-8_11.
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4. Jha AK. **The Effects of Climate Change on the Health of Americans [Expert Testimony].** Washington, DC: US Government, Testimony to the House Ways and Means Committee; 2019. Available from: <https://docs.house.gov/meetings/WM/WM00/20190515/109473/HHRG-116-WM00-Wstate-JhaA-20190515.pdf>.
5. Kipp A, Cunsolo A, Vodden K, King N, Manners S, Harper SL. **At-a-glance – Climate change impacts on health and wellbeing in rural and remote regions across Canada: a synthesis of the literature.** *Health Promot Chronic Dis Prev Can.* 2019. Available from: <https://www.canada.ca/en/public-health/services/reports-publications/health-promotion-chronic-disease-prevention-canada-research-policy-practice/vol-39-no-4-2019/climate-change-impacts-health-wellbeing-rural-remote-regions-across-canada-synthesis.html>.
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COMMUNICABLE AND INFECTIOUS DISEASES

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DRINKING WATER

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<http://www.sciencedirect.com/science/article/pii/S1462901119300267>.
5. Temkin A, Evans S, Manidis T, Campbell C, Naidenko OV. **Exposure-based assessment and economic valuation of adverse birth outcomes and cancer risk due to nitrate in United States drinking water**. Environ Res. 2019:108442.

EMERGENCY PREPAREDNESS

1. Alberta Health Services. **Wildfire recovery resources**. Edmonton, AB: Government of Alberta; 2019; Available from: <https://www.albertahealthservices.ca/eph/Page14085.aspx>.
2. World Health Organization. **WHO guidance for contingency planning**. Geneva, Switzerland: WHO; 2018. Available from: <https://apps.who.int/iris/bitstream/handle/10665/260554/WHO-WHE-CPI-2018.13-eng.pdf?ua=1>.

ENVIRONMENTAL HEALTH SURVEILLANCE

ENVIRONMENTAL PLANNING

1. Diallo T. **Symposium - Building a Collaborative Environment: Bridging Disciplines of Public Health and Planning - Public Health 2019**. Montreal, QC: National Collaborating Centre for Healthy Public Policy, Institut national de sante publique; 2019 May 1. Available from:
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FOOD

Food Safety

- Arnold C. **Baby Steps Forward: Recommendations for Better Understanding Environmental Chemicals in Breast Milk and Infant Formula.** *Environ Health Perspect.* 2019;127(6):064001. Available from: <https://doi.org/10.1289/EHP4804>.
- Bernstein AS, Oken E, de Ferranti S. **Fish, Shellfish, and Children's Health: An Assessment of Benefits, Risks, and Sustainability.** *Pediatrics.* 2019;143(6):e20190999. Available from: <https://pediatrics.aappublications.org/content/pediatrics/143/6/e20190999.full.pdf>.
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Food Security

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GENERAL

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HEALTH EQUITY

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