

ENVIRONMENTAL HEALTH RESEARCH SCAN

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Environmental Health (EH) Research Scan: Aims and Scope

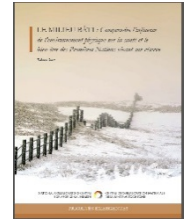
NCCEH's EH Research Scan aims to expand awareness of topics in environmental health, in line with NCCEH's vision to be the indispensable online resource for environmental health practitioners and policy-makers across Canada. "We focus on health risks associated with the physical environment and identify 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.
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EDITOR PICKS

The built environment: Understanding how physical environments influence the health and well-being of First Nations peoples living on-reserve

Roberta Stout, National Collaborating Centre for Aboriginal Health, 2018

“This paper summarizes what is known about how the built environment influences the health and well-being of First Nations reserve communities. Although the built environment is large in scope this paper focuses in five distinct areas including housing; water and wastewater management; food security; active living; and transportation.”



Municipal guide to cannabis legalization a roadmap for Canadian local governments

Federation of Canadian Municipalities, 2018

“This guide is designed to provide an overview of the work ahead for local governments and offer both policy and regulatory options to choose from.”



Near-real-time surveillance of illnesses related to shellfish consumption in British Columbia: analysis of Poison Center data

Victoria Wan, Lorraine McIntyre, Debra Kent, Dara Leong, Sarah Henderson, 2018

“The surveillance capacity is evident within poison control data as shown from the novel use of DPIC data for identifying illnesses related to shellfish consumption in BC. The further development of surveillance programs could improve and enhance response to public health emergencies related to acute illnesses, chronic diseases, and environmental exposures.”



Community health data [online portal]

British Columbia Centre for Disease Control, 2018

“The information found on the BC Community Health Data website can be used by regional health authorities, local governments, non-government organizations and other partner organizations in collaborative and evidence-informed community health planning and decision making.”

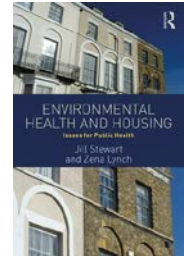


EDITOR PICKS

Environmental health and housing: issues for public health [book]

Jill Stewart and Zena Lynch, 2018

“With a theory and practice approach to public health this 2nd edition focuses more on population health; health protection and improvement; and inter-agency approaches to effective intervention in housing and health through evidence based practice.”



HPS evidence assessment on the potential health impacts of tyre crumb used in artificial ground surfaces

Health Protection Scotland, 2017

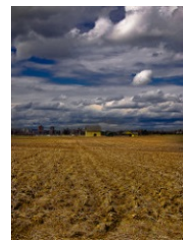
“Health Protection Scotland has concluded that there is a clear consensus in the findings from evidence published to date, which does not support the hypothesis that exposure to tyre crumb used in artificial surfaces poses a significant risk to human health.”



Comparing urban and rural vulnerability to heat-related mortality: a systematic review and meta-analysis

Li et al., 2017

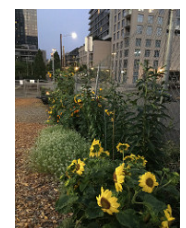
“Our findings suggest that vulnerability to heat-related mortality in rural areas is likely to be similar to or even greater than urban areas.”



An adaptable Health Impact Assessment (HIA) framework for assessing health within Environmental Assessment (EA): Canadian context, international application

McCallum et al., 2018

“By using an HIA Framework, a well-known yet underutilized tool can effectively address health issues within the EA process, both in a Canadian context and internationally.”



Preparing for the health impacts of climate change in Indigenous communities: The role of community-based adaptation.

Ford et al., 2018

“We examine the application of Community Based Adaptation (CBA) approaches in Indigenous community settings.....”



ENVIRONMENTAL HEALTH RESEARCH SCAN

SELECTED STAFF PUBLICATIONS (NCCEH or BCCDC)

1. Wan V, McIntyre L, Kent D, Leong D, Henderson SB. **Near-real-time surveillance of illnesses related to shellfish consumption in British Columbia: analysis of Poison Center data.** JMIR public health and surveillance [serial on the Internet]. 2018; 4(1): Available from: <https://doi.org/10.2196/publichealth.8944>.

NCCEH e-News (French and English)

1. Centre de collaboration nationale en santé environnementale. **e-Nouvelles du CCNSE: Surveillance des répercussions des changements climatiques sur la santé; Atelier sur la surveillance de la santé environnementale; Santé publique et surveillance des conditions de logement; plus...** Vancouver, BC: CCNSE; 2018 avril. Available from: <https://tinyurl.com/yanj9sdt>.
2. National Collaborating Center for Environmental Health. **NCCEH eNews: Monitoring health impacts of climate change; Environmental health surveillance workshop; Public health surveillance of housing conditions; more...** Vancouver, BC: NCCEH; 2018 Apr. Available from: <https://tinyurl.com/y8rgdodu>.
3. Centre de collaboration nationale des déterminants de la santé. **Leadership de la santé publique pour favoriser l'équité en santé : une revue de la littérature.** Antigonish, NS: Centre de collaboration nationale des déterminants de la santé; 2018. Available from: http://nccdh.ca/fr/resources/entry/public-health-leadership-for-action-on-health-equity-a-literature-review?utm_source=FebE-News&utm_medium=email&utm_campaign=2018-Leadership1.
4. National Collaborating Center for Determinants of Health. **Public health leadership for action on health equity: A literature review.** Antigonish, NS: National Collaborating Center for Determinants of Health; 2018. Available from: http://nccdh.ca/resources/entry/public-health-leadership-for-action-on-health-equity-a-literature-review?utm_source=FebE-News&utm_medium=email&utm_campaign=2018-Leadership1.

INDIGENOUS ENVIRONMENTAL HEALTH

1. Ford JD, Sherman M, Berrang-Ford L, Llanos A, Carcamo C, Harper S, et al. **Preparing for the health impacts of climate change in Indigenous communities: The role of community-based adaptation.** Global Environmental Change Part A: Human & Policy Dimensions. 2018;49:129-39. Available from: <https://www.sciencedirect.com/science/article/pii/S0959378016304447>.
2. Islam M, Yuan Q. **First Nations wastewater treatment systems in Canada: Challenges and opportunities.** Cogent Environmental Science. 2018;4. Available from: <https://www.cogentoa.com/article/10.1080/23311843.2018.1458526.pdf>.
3. Liberda EN, Tsuji LJS, Martin ID, Ayotte P, Robinson E, Dewailly E, et al. **Source identification of human exposure to lead in nine Cree Nations from Quebec, Canada (Eeyou Istchee territory).** Environ Res. 2018;161:409-17. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29197759>.
4. Stout R. **The built environment: Understanding how physical environments influence the health and well-being of First Nations peoples living on-reserve.** Prince George, BC: National Collaborating Center for Aboriginal Health; 2018 Apr. Available from: https://www.ccnsa-nccah.ca/495/The_built_environment_Understanding_how_physical_environments_influence_the_health_and_well-being_of_First_Nations_peoples_living_on-reserve_nccah?id=236.

5. Stout R. **Le milieu bâti : Comprendre l'influence de l'environnement physique sur la santé et le bien-être des Premières Nations vivant sur réserve.** Prince George, BC: Centre de collaboration nationale de la santé autochtone; 2018 avril. Available from: https://www.ccsa-nccah.ca/525/Voir_publication.nccah?id=236.

AGRICULTURAL OPERATIONS

1. Andrés JF. **Can urban agriculture become a planning strategy to address social-ecological justice?** Stockholm, Sweden: Kth Royal Institute of Technology, School of Architecture and the Built Environment; 2017. Available from: <http://kth.diva-portal.org/smash/get/diva2:1153064/FULLTEXT01.pdf>.
2. Olakunle AO. **Endotoxin levels and their association with respiratory outcome in two Saskatchewan communities.** Saskatoon, SK: University of Saskatchewan; 2018. Available from: <https://ecommons.usask.ca/bitstream/handle/10388/8491/AWOYERA-THESIS-2018.pdf?sequence=1>.

BIOLOGICAL AGENTS

BUILT ENVIRONMENT

1. Hjort M, Martin W, Stewart T, Troelsen J. **Design of urban public spaces: Intent vs. Reality.** Int J Environ Res Public Health. 2018;15(4):816. Available from: <http://www.mdpi.com/1660-4601/15/4/816>.
2. Lee J, Lo T, Ho R. **Understanding outdoor gyms in public open spaces: A systematic review and integrative synthesis of qualitative and quantitative evidence.** Int J Environ Res Public Health. 2018;15(4):590. Available from: <http://www.mdpi.com/1660-4601/15/4/590>.
3. Schram-Bijkerk D, Otte P, Dirven L, Breure AM. **Indicators to support healthy urban gardening in urban management.** Sci Total Environ. 2018;621:863-71. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29216594>.
4. Stewart J, Lynch Z. **Environmental health and housing: Issues for public health.** New York, NY: Routledge; 2018. Available from: <https://www.routledge.com/Environmental-Health-and-Housing/Stewart/p/book/9780415251297>.

CHEMICAL AGENTS – METALS, GENERAL

BPA, phthalates, other

1. Huang R-p, Liu Z-h, Yin H, Dang Z, Wu P-x, Zhu N-w, et al. **Bisphenol A concentrations in human urine, human intakes across six continents, and annual trends of average intakes in adult and child populations worldwide: A thorough literature review.** Sci Total Environ. 2018;626:971-81. Available from: <https://www.sciencedirect.com/science/article/pii/S0048969718301694>.
2. Rochester JR, Bolden AL, Kwiatkowski CF. **Prenatal exposure to bisphenol A and hyperactivity in children: a systematic review and meta-analysis.** Environ Int. 2018;114:343-56. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29525285>.
3. Varshavsky JR, Morello-Frosch R, Woodruff TJ, Zota AR. **Dietary sources of cumulative phthalates exposure among the U.S. general population in NHANES 2005–2014.** Environ Int. 2018. Available from: <https://www.sciencedirect.com/science/article/pii/S0160412017314666>.

General

1. Finney BA, Maeda RK. **Evaluation of tire derived aggregate as a media for stormwater treatment.** Sacramento, CA: CalRecycle, Government of California; 2018 Feb. Available from: <http://www.calrecycle.ca.gov/Publications/Detail.aspx?PublicationID=1625>.
2. Health Protection Scotland. **HPS evidence assessment on the potential health impacts of tyre crumb used in artificial ground surfaces.** Glasgow, Scotland: HPS; 2017 Nov. Available from: <http://www.hps.scot.nhs.uk/resourcedocument.aspx?id=6273>.
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4. World Health Organization. **National chemicals registers and inventories: benefits and approaches to development.** Copenhagen, Denmark: World Health Organization, Regional Office for Europe; 2018 Apr. Available from: http://www.euro.who.int/_data/assets/pdf_file/0018/361701/9789289052948-eng.pdf?ua=1.

CHEMICAL AGENTS - PESTICIDES

1. Mitchell EAD, Mulhauser B, Mulot M, Mutabazi A, Glauser G, Aebi A. **A worldwide survey of neonicotinoids in honey.** *Science*. 2017;358(6359):109-11. Available from: <http://science.sciencemag.org/content/sci/358/6359/109.full.pdf>.

CHEMICAL AGENTS – SHALE GAS

1. Bolden AL, Schultz K, Pelch KE, Kwiatkowski CF. **Exploring the endocrine activity of air pollutants associated with unconventional oil and gas extraction.** *Environ Health*. 2018;17(1):26. Available from: <https://doi.org/10.1186/s12940-018-0368-z>.
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CHILDREN'S ENVIRONMENTAL HEALTH

1. Dong J, Zhang S, Xia L, Yu Y, Hu S, Sun J, et al. **Physical activity, a critical exposure factor of environmental pollution in children and adolescents health risk assessment.** *Int J Environ Res Public Health*. 2018;15 (2) (no pagination):176. Available from: <http://www.mdpi.com/1660-4601/15/2/176>.
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3. Neira M, Fletcher E, Brune-Drisse MN, Pfeiffer M, Adair-Rohani H, Dora C. **Environmental health policies for women's, children's and adolescents' health.** *Bull World Health Organ*. 2017;95(8):604-6. Available from: <http://www.who.int/bulletin/volumes/95/8/16-171736/en/>.
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CLIMATE CHANGE

1. Banwell N, Rutherford S, Mackey B, Chu C. **Towards improved linkage of disaster risk reduction and climate change adaptation in health: A review.** *Int J Environ Res Public Health.* 2018;15(4):793. Available from: <http://www.mdpi.com/1660-4601/15/4/793>.
2. Berisha V, Hondula D, Roach M, White JR, McKinney B, Bentz D, et al. **Assessing adaptation strategies for extreme heat: A public health evaluation of cooling centers in Maricopa County, Arizona.** *Weather Climate and Society.* 2017;9(1):71-80. Available from: <https://journals.ametsoc.org/doi/abs/10.1175/WCAS-D-16-0033.1>.
3. Berry HL, Waite TD, Dear KBG, Capon AG, Murray V. **The case for systems thinking about climate change and mental health.** *Nature Climate Change.* 2018;8(4):282-90. Available from: <https://doi.org/10.1038/s41558-018-0102-4>.
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5. Office of the Auditor General of Canada. **Perspectives on Climate Change Action in Canada—A Collaborative Report from Auditors General—March 2018.** Ottawa, ON: Office of the Auditor General of Canada; 2018 Mar. Available from: http://www.oag-bvg.gc.ca/internet/English/parl_otp_201803_e_42883.html.
6. Richardson GRA, Storfer J. **Helping Canadian communities reduce urban heat islands.** Haznet; 2017. Available from: <http://haznet.ca/helping-canadian-communities-reduce-urban-heat-islands/>.
7. Rom WN. **Estimated global mortality from present to 2100 from climate change.** *International Journal of Humanities and Social Science Review.* 2018;4(2). Available from: <http://www.ijhssrnet.com/wp-content/uploads/2018/03/1.pdf>.
8. Valois P, Talbot D, Renaud J-S, Caron M, Bouchard D. **Déterminants de l'adaptation à la chaleur l'été chez les personnes âgées.** Québec, QC: Université Laval; 2018. Available from: http://www.monclimatmasante.qc.ca/Data/Sites/1/publications/OQACC_Rapport_etude_2.1_2018-02-07.pdf.
9. Williams S, Hanson-Easey S, Robinson G, Pisaniello D, Newbury J, Saniotis A, et al. **Heat adaptation and place: experiences in South Australian rural communities.** *Regional Environmental Change.* 2017;17(1):273-83. Available from: <https://link.springer.com/article/10.1007/s10113-016-1011-6>.
10. Workman A, Blashki G, Bowen K, Karoly D, Wiseman J. **The political economy of health co-benefits: Embedding health in the climate change agenda.** *Int J Environ Res Public Health.* 2018;15(4):674. Available from: <http://www.mdpi.com/1660-4601/15/4/674>.
11. Zinsstag J, Crump L, Schelling E, Hattendorf J, Maidane YO, Ali KO, et al. **Climate change and One Health.** *FEMS Microbiol Lett.* 2018:fny085-fny. Available from: <http://dx.doi.org/10.1093/femsle/fny085>.

COMMUNICABLE AND INFECTIOUS DISEASES

1. Ontario Agency for Health Protection and Promotion (Public Health Ontario), Provincial Infectious Diseases Advisory Committee. **Best practices for environmental cleaning for prevention and control of infections in all health care settings, 3rd ed.** Toronto, ON: Public Health Ontario, Queen's Printer for Ontario; 2018 Apr. Available from: https://www.publichealthontario.ca/en/eRepository/Best_Practices_Environmental_Cleaning.pdf.

DRINKING WATER

1. Public Health Ontario. **The effect of flooding on private drinking water systems.** Toronto, ON: PHO; 2018 Apr. Available from: <http://www.publichealthontario.ca/en/blog/Lists/Posts/Post.aspx?ID=113>.

EMERGENCY PREPAREDNESS

1. Ramsbottom A, O'Brien E, Ciotti L, Takacs J. **Enablers and barriers to community engagement in public health emergency preparedness: A literature review.** J Community Health. 2018;43(2):412-20. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28840421>.

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1. British Columbia Centre for Diseases Control. **Community health data (General health by Province – Diabetes statistics from the BC Chronic Disease Registry) [online portal].** Vancouver, BC: BCCDC; [cited 2018 Apr 13]; Available from: <http://communityhealth.phsa.ca/GetTheData/SearchByTopic>.
2. Wallar LE, Sargeant JM, McEwen SA, Mercer NJ, Papadopoulos A. **Building data and information capacity in environmental public health: A best-worst scaling experiment.** Journal Of Public Health Management And Practice: JPHMP. 2018;24(3):e1-e8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28628585>.

ENVIRONMENTAL PLANNING

FOOD

Microplastics

1. Rist S, Carney Almroth B, Hartmann NB, Karlsson TM. **A critical perspective on early communications concerning human health aspects of microplastics.** Sci Total Environ. 2018;626:720-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29396337>.
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Safety

1. Belluco S, Halloran A, Ricci A. **New protein sources and food legislation: the case of edible insects and EU law.** Food Security. 2017;9(4):803-14. Available from: <https://link.springer.com/article/10.1007/s12571-017-0704-0>.
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5. Laulund S, Wind A, Derkx PM, Zuliani V. **Regulatory and safety requirements for food cultures.** Microorganisms. 2017;5(2):28. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5488099/>.
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Security

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GENERAL

1. British Columbia Centre for Diseases Control. **Community health data [online portal].** Vancouver, BC: BCCDC; [cited 2018 Apr 13]; Available from: <http://www.bccdc.ca/our-services/service-areas/population-public-health/community-health-data>.
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HEALTH EQUITY

1. Centre de collaboration nationale des déterminants de la santé. **Leadership de la santé publique pour favoriser l'équité en santé : une revue de la littérature.** Antigonish, NS: Centre de collaboration nationale des déterminants de la santé; 2018. Available from: http://nccdh.ca/fr/resources/entry/public-health-leadership-for-action-on-health-equity-a-literature-review?utm_source=FebE-News&utm_medium=email&utm_campaign=2018-Leadership1.

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