

# ENVIRONMENTAL HEALTH RESEARCH SCAN

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## CONTENTS

- [STAFF](#)
- [INDIGENOUS ENVIRONMENTAL HEALTH](#)
- [AGRICULTURAL OPERATIONS](#)
- [BIOLOGICAL AGENTS](#)
- [BUILT ENVIRONMENT](#)
- [CHEMICAL AGENTS – METALS, GENERAL](#)
- [CHEMICAL AGENTS – PESTICIDES](#)
- [CHEMICAL AGENTS – SHALE GAS](#)
- [CHILDREN'S ENVIRONMENTAL HEALTH](#)
- [CLIMATE CHANGE](#)
- [COMMUNICABLE AND INFECTIOUS DISEASES](#)
- [DRINKING WATER](#)
- [EMERGENCY PREPAREDNESS](#)
- [ENVIRONMENTAL HEALTH SURVEILLANCE](#)
- [ENVIRONMENTAL PLANNING](#)
- [FOOD](#)
- [GENERAL](#)
- [HEALTH EQUITY](#)
- [HEALTH IMPACT ASSESSMENT](#)
- [INDOOR AIR](#)
- [NUISANCE CONTROL](#)
- [OUTDOOR AIR](#)
- [PERSONAL SERVICE ESTABLISHMENTS](#)
- [PEST CONTROL](#)
- [PHYSICAL AGENTS](#)
- [RADIATION](#)
- [RECREATIONAL AND SURFACE WATER](#)
- [RISK ASSESSMENT, COMMUNICATION](#)
- [SENIORS' ENVIRONMENTAL HEALTH](#)
- [TOBACCO](#)
- [WASTE](#)
- [ZOOSES](#)

### *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

### Promoting knowledge exchange and collaboration on healthy built environment: A new online discussion forum at NCCEH.

Tina Chen, Environmental Health and Knowledge Translation Scientist, NCCEH

*The “Healthy Built Environment in Canada” discussion forum is a unique initiative in Canada... Through this forum, public health inspectors will have the opportunity to connect with other public health practitioners and cross-sector partners to better understand built environment concepts...[more] Go to [FORUM](#)*



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### The 100 Radon Test Kit Challenge for Canada.

Leela Steiner, Environmental Health and Knowledge Translation Scientist, NCCEH and Anne-Marie Nicol (right), Environmental Health and Knowledge Translation Scientist, NCCEH

*This is a pilot project of the [Take Action on Radon](#) program. Supported by [Health Canada](#), the “challenge” provides 100 **free** radon test kits to communities interested in testing homes in higher radon regions. Public health practitioners, environmental health officers, municipality staff or non-profit groups can apply to access kits for their region.*



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### Radon: Public health and cancer prevention [video]

National Collaborating Centre for Environmental Health  
Leela Steiner, Environmental Health and Knowledge Translation Scientist, NCCEH

*This whiteboard video features evidence-based information on radon and public health, as well as policy, guidance, gaps, opportunities and actions you can take.*



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### Slowing down the superbugs

Shirra Freeman, Environmental Health and Knowledge Translation Scientist, NCCEH

*“...AMR cannot be stopped, but can be slowed through [integrated strategies](#) that include activities such as inspections, surveillance and outreach by EPH practitioners.”*



## ENVIRONMENTAL HEALTH RESEARCH SCAN

### SELECTED STAFF PUBLICATIONS (NCCEH or BCCDC)

1. Chen T. **Promoting knowledge exchange and collaboration on healthy built environment: A new online discussion forum at NCCEH.** Environ Health Rev. 2018;61(3):71-3. Available from: <http://pubs.ciphi.ca/doi/pdf/10.5864/d2018-020>.
2. National Collaborating Center for Environmental Health. **Healthy built environment - all forums.** Vancouver, BC: National Collaborating Center for Environmental Health; 2018; Available from: <http://www.ncceh.ca/forum>.
3. Steiner L, Nicol A-M. **Défi test du radon au Canada [blogue].** Vancouver, BC: Centre de collaboration nationale en santé environnementale; 2018 novembre. Available from: <http://www.ccse.ca/content/d%C3%A9fi-test-du-radon-au-canada>.
4. Steiner L, Nicol A-M. **The 100 Radon Test Kit Challenge for Canada [blog].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2018 Nov. Available from: <http://www.ncceh.ca/content/100-radon-test-kit-challenge-canada>.
5. Freeman S. **Freiner les supermicrobes [blogue].** Vancouver, BC: Centre de collaboration nationale en santé environnementale; 2018 novembre. Available from: <http://www.ccse.ca/content/freiner-les-supermicrobes>.
6. Freeman S. **Slowing down the superbugs [blog].** Vancouver, BC: National Collaborating Centre for Environmental Health; 2018 Nov. Available from: <http://www.ncceh.ca/content/slowing-down-superbugs>.
7. National Collaborating Centre for Environmental Health. **Radon: Public health and cancer prevention [video].** Vancouver, BC: NCCEH; 2018 Nov. Available from: <https://www.youtube.com/watch?v=HryzrFjU4fQ>.

#### NCCEH e-News (French and English)

1. Centre de collaboration nationale en santé environnementale. **e-Nouvelles du CCNSE: Radon : santé publique et prévention du cancer; Projet de détection du radon dans des communautés des Premières Nations de la Colombie-Britannique; Le défi test du radon au Canada; plus...** Vancouver, BC: CCNSE; 2018 novembre. Available from: <https://tinyurl.com/y7jz2f5p>.
2. National Collaborating Center for Environmental Health. **NCCEH eNews: New video: "Radon: Public Health and Cancer Prevention"; Experiences with BC First Nations community-based radon testing; The 100 Radon Test Kit Challenge for Canada; more...** . Vancouver, BC: NCCEH; 2018 Nov. Available from: <https://tinyurl.com/y8hud94a>.

### INDIGENOUS ENVIRONMENTAL HEALTH

1. British Columbia Provincial Disaster Recovery Branch. **Local authorities and First Nations recovery toolkit.** Victoria, BC: Government of British Columbia; 2018 Mar. Available from: [https://www2.gov.bc.ca/assets/gov/public-safety-and-emergency-services/emergency-preparedness-response-recovery/local-government/local\\_authorities\\_and\\_first\\_nations\\_recovery-toolkit\\_march\\_2018.pdf](https://www2.gov.bc.ca/assets/gov/public-safety-and-emergency-services/emergency-preparedness-response-recovery/local-government/local_authorities_and_first_nations_recovery-toolkit_march_2018.pdf).
2. Crooks C, Reciprocal Consulting Team. **An evaluation of mental health first aid First Nations comprehensive report.** London, ON: Western University Centre for School Mental Health; 2018. Available from: [http://www.csmh.uwo.ca/docs/mhfa\\_fn/mhfafn-summary.pdf](http://www.csmh.uwo.ca/docs/mhfa_fn/mhfafn-summary.pdf).
3. Curran J, Ritchie SD, Beardy J, VanderBurgh D, Born K, Lewko J, et al. **Conceptualizing and managing medical emergencies where no formal paramedical system exists: Perspectives from a remote indigenous**

**community in Canada.** Int J Environ Res Public Health. 2018;15(2). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29401706>.

## AGRICULTURAL OPERATIONS

## BIOLOGICAL AGENTS

## BUILT ENVIRONMENT

1. Bustami RA, Belusko M, Ward J, Beecham S. **Vertical greenery systems: A systematic review of research trends.** Build Environ. 2018;146:226-37. Available from: <https://www.sciencedirect.com/science/article/pii/S0360132318306036>.
2. Moore THM, Kesten JM, Lopez-Lopez JA, Ijaz S, McAleenan A, Richards A, et al. **The effects of changes to the built environment on the mental health and well-being of adults: Systematic review.** Health Place. 2018;53:237-57. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30196042?dopt=Abstract>.
3. Sinnott D, Calvert T, Burgess S, Smith N. **Global green infrastructure: How is green infrastructure research translated into practice outside the UK? Technical Report.** Bristol, UK: University of the West of England; 2017. Available from: <http://eprints.uwe.ac.uk/31646/1/International%20review%20for%20GI%20Final.pdf>.
4. World Urban Database. **World Urban Database and Access Portal Tools project.** Available from: <http://www.wudapt.org/>.

## CHEMICAL AGENTS – METALS, GENERAL

### General

1. Guo Z, Xie HQ, Zhang P, Luo Y, Xu T, Liu Y, et al. **Dioxins as potential risk factors for autism spectrum disorder.** Environ Int. 2018;121:906-15. Available from: <http://www.sciencedirect.com/science/article/pii/S0160412018315678>.
2. Health Canada. **Chloramines in Drinking Water - Guideline Technical Document for Public Consultation.** Ottawa, ON: Government of Canada; 2018 Nov. Available from: <https://www.canada.ca/en/health-canada/programs/consultation-chloramines-drinking-water/document.html>.
3. Wiseman CLS, Parnia A, Chakravartty D, Archbold J, Copes R, Cole D. **Total, methyl and inorganic mercury concentrations in blood and environmental exposure sources in newcomer women in Toronto, Canada.** Environ Res. 2018. Available from: <http://www.sciencedirect.com/science/article/pii/S0013935118305814>.

### BPA, Pthalates, Organic Pollutants, etc

1. Nieder R, Benbi DK, Reichl FX. **Health risks associated with organic pollutants in soils.** Soil Components and Human Health: Springer; 2018. p. 575-657. Available from: [https://link.springer.com/chapter/10.1007/978-94-024-1222-2\\_11](https://link.springer.com/chapter/10.1007/978-94-024-1222-2_11).
2. Pergialiotis V, Kotrogianni P, Christopoulos-Timogiannakis E, Koutaki D, Daskalakis G, Papantoniou N. **Bisphenol A and adverse pregnancy outcomes: a systematic review of the literature.** J Matern Fetal Neonatal Med. 2018;31(24):3320-7. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28805116>.

- Radke EG, Braun JM, Meeker JD, Cooper GS. **Phthalate exposure and male reproductive outcomes: A systematic review of the human epidemiological evidence.** *Environ Int.* 2018;121:764-93. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30336412>.
- Singh K. **Human health risks of persistent organic pollutant exposures in the Canadian Arctic:** Université d'Ottawa/University of Ottawa; 2018. Available from: <https://ruor.uottawa.ca/handle/10393/37799>.
- Sunderland EM, Hu XC, Dassuncao C, Tokranov AK, Wagner CC, Allen JG. **A review of the pathways of human exposure to poly- and perfluoroalkyl substances (PFASs) and present understanding of health effects.** *J Expo Sci Environ Epidemiol.* 2018. Available from: <https://doi.org/10.1038/s41370-018-0094-1>.

## CHEMICAL AGENTS - PESTICIDES

- Health Service Executive, National Drinking Water Group. **Pesticides in drinking water. Frequently asked questions.** Health Service Executive National Drinking Water Group; 2018 Oct. Available from: <https://www.hse.ie/eng/health/hl/water/drinkingwater/faq-pesticides.pdf>.
- Jones B, Mulder C. **Update on the review of neonicotinoids by the Canadian Pest Management Regulatory Agency.** Suasalito, CA: Bennett Jones LLP; 2018 Oct 31. Available from: <https://www.jdsupra.com/legalnews/update-on-the-review-of-neonicotinoids-36139/>.
- Mie A, Rudén C, Grandjean PJEH. **Safety of Safety Evaluation of Pesticides: developmental neurotoxicity of chlorpyrifos and chlorpyrifos-methyl.** 2018;17(1):77. Available from: <https://doi.org/10.1186/s12940-018-0421-y>.
- U.S. Food and Drug Administration. **Pesticide Residue Monitoring Program. Fiscal Year 2016 Pesticide Report.** Silver Spring, MD: US FDA; 2018. Available from: <https://www.fda.gov/downloads/Food/FoodborneIllnessContaminants/Pesticides/UCM618373.pdf>.
- Van Maele-Fabry G, Gamet-Payrastre L, Lison D. **Household exposure to pesticides and risk of leukemia in children and adolescents: Updated systematic review and meta-analysis.** *Int J Hyg Environ Health.* 2019;222(1):49-67. Available from: <https://www.sciencedirect.com/science/article/pii/S143846391830364X>.

## CHEMICAL AGENTS – SHALE GAS

- Resources for the Future. **SHARC—Shale Research Clearinghouse (beta).** Washington, DC: SHARC; 2018; SHARC is a publicly accessible, curated clearinghouse for information on the economic, health, and environmental impacts of oil and gas development.]. Available from: <http://www.rff.org/sharc-shale-research-clearinghouse-beta>.

## CHILDREN'S ENVIRONMENTAL HEALTH

- Lambert K, Bowatte G, Tham R, Lodge C, Prendergast L, Heinrich J, et al. **Greenspace and Atopic Sensitization in Children and Adolescents—A Systematic Review.** 2018;15(11):2539. Available from: <http://www.mdpi.com/1660-4601/15/11/2539>.
- Vanaken G-J, Danckaerts M. **Impact of Green Space Exposure on Children's and Adolescents' Mental Health: A Systematic Review.** 2018;15(12):2668. Available from: <http://www.mdpi.com/1660-4601/15/12/2668>.

## CLIMATE CHANGE

- Emrich T. **Blog: Beyond assessing and reporting: Acting on evidence of inequity in the in the maritime provinces.** Antigonish, NS: National Collaborating Centre for Determinants of Health, Saint Xavier University;

- 2018 Nov. Available from: <http://nccdh.ca/blog/entry/beyond-assessing-and-reporting-acting-on-evidence-of-inequity>.
- Emrich T. **Blogue: Au-delà de l'évaluation et de la communication des résultats : agir en présence d'iniquités dans les provinces maritimes**. Antigonish, NS: Centre de collaboration nationale des déterminants de la santé, Saint Xavier University; 2018 novembre. Available from: <http://nccdh.ca/fr/blog/entry/beyond-assessing-and-reporting-acting-on-evidence-of-inequity>.
  - Howard C, Rose C, Rivers N. **Lancet Countdown 2018 Report: Briefing for Canadian policymakers**. Ottawa, ON: Canadian Medical Association, Canadian Public Health Association, and The Lancet; 2018 Nov. Available from: <http://www.lancetcountdown.org/media/1418/2018-lancet-countdown-policy-brief-canada.pdf>.
  - Rifkin DJ, Long MW, Perry MJ. **Climate change and sleep: A systematic review of the literature and conceptual framework**. Sleep Medicine Reviews. 2018;42:3-9. Available from: <https://www.sciencedirect.com/science/article/pii/S1087079218300765>.
  - The Lancet. **Humanising health and climate change**. The Lancet. 2018. Available from: [https://doi.org/10.1016/S0140-6736\(18\)33016-2](https://doi.org/10.1016/S0140-6736(18)33016-2).
  - Thompson R, Hornigold R, Page L, Waite T. **Associations between high ambient temperatures and heat waves with mental health outcomes: a systematic review**. Public Health. 2018;161:171-91. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30007545>.
  - Waits A, Emelyanova A, Oksanen A, Abass K, Rautio A. **Human infectious diseases and the changing climate in the Arctic**. Environ Int. 2018;121(Pt 1):703-13. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30317100>.
  - Watts N, Amann M, Ayeb-Karlsson S, Belesova K, Bouley T, Boykoff M, et al. **The Lancet Countdown on health and climate change: from 25 years of inaction to a global transformation for public health**. The Lancet. 2018;391(10120):581-630. Available from: [https://doi.org/10.1016/S0140-6736\(17\)32464-9](https://doi.org/10.1016/S0140-6736(17)32464-9).

## COMMUNICABLE AND INFECTIOUS DISEASES

### DRINKING WATER

- Environmental Health PNews Staff. **LISTEN: EHN editor discusses three important new studies on fluoride and public health**. Environmental Health News. 2018. Available from: <https://www.ehn.org/fluoride-in-water-harming-health-2617829180.html>.
- Mian HR, Hu G, Hewage K, Rodriguez MJ, Sadiq R. **Prioritization of unregulated disinfection by-products in drinking water distribution systems for human health risk mitigation: A critical review**. Water Research. 2018;147:112-31. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30308371>.
- Till C, Green R, Grundy JG, Hornung R, Neufeld R, Martinez-Mier EA, et al. **Community water fluoridation and urinary fluoride concentrations in a national sample of pregnant women in Canada**. Environ Health Perspect. 2018;126(10):107001. Available from: <https://ehp.niehs.nih.gov/doi/abs/10.1289/EHP3546>.

### EMERGENCY PREPAREDNESS

- British Columbia Provincial Disaster Recovery Branch. **Local authorities and First Nations recovery toolkit**. Victoria, BC: Government of British Columbia; 2018 Mar. Available from: <https://www2.gov.bc.ca/assets/gov/public-safety-and-emergency-services/emergency-preparedness-response-recovery/local-government/local-authorities-and-first-nations-recovery-toolkit-march-2018.pdf>.
- Canadian Urban Environmental Health Research Consortium (CANUE). **New data are ready to go (Canadian Marginalization Indices; Access to Employment Indices; Urban Climate Health zones)**. Victoria, BC:

- CANUE; 2018 Nov. Available from: <https://mailchi.mp/f92b022d2ba9/canue-update-november-2018-781977?e=b2fd8be035>.
3. Crooks C, Reciprocal Consulting Team. **An evaluation of mental health first aid First Nations comprehensive report**. London, ON: Western University Centre for School Mental Health; 2018. Available from: [http://www.csmh.uwo.ca/docs/mhfa\\_fn/mhfafn-summary.pdf](http://www.csmh.uwo.ca/docs/mhfa_fn/mhfafn-summary.pdf).
  4. Curran J, Ritchie SD, Beardy J, VanderBurgh D, Born K, Lewko J, et al. **Conceptualizing and managing medical emergencies where no formal paramedical system exists: Perspectives from a remote indigenous community in Canada**. Int J Environ Res Public Health. 2018;15(2). Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29401706>.
  5. Eckert S, Sopory P, Day A, Wilkins L, Padgett D, Novak J, et al. **Health-Related Disaster Communication and Social Media: Mixed-Method Systematic Review**. Health Commun. 2018;33(12):1389-400. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28825501>.
  6. Kelleher S, Miller-Lionberg D, Volckens J, Quinn C. **A low-cost particulate matter (PM2.5) monitor for wildland fire smoke**. Atmospheric Measurement Techniques. 2018;11(2):1087-97. Available from: <https://www.atmos-meas-tech.net/11/1087/2018/>.
  7. Mi-Sun L, Soo-Young B. **Assessment tools for the mental health of school-aged children and adolescents exposed to disaster: a systematic review (1988-2015)**. Journal of the Korean Academy of Child & Adolescent Psychiatry. 2018;29(3):88-100. Available from: <http://www.jkacap.org/journal/view.html?uid=633&&vmd=Full>.
  8. Paterson DL, Wright H, Harris PNA. **Health Risks of Flood Disasters**. Clin Infect Dis. 2018;67(9):1450-4. Available from: <https://academic.oup.com/cid/article/67/9/1450/4945455>.
  9. Sopory P, Day AM, Novak JM, Eckert K, Wilkins L, Padgett DR, et al. **Communicating uncertainty during public health emergency events: A systematic review**. 2018. Available from: <http://www.rcommunicationr.org/index.php/articles/volume-7-2019/finish/23/81>.
  10. Vaidyanathan A, Yip F, Garbe P. **Developing an online tool for identifying at-risk populations to wildfire smoke hazards**. Sci Total Environ. 2018;619/620:376-83. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29156258>.

## ENVIRONMENTAL HEALTH SURVEILLANCE

### ENVIRONMENTAL PLANNING

1. **Survey and health assessment of chemicals substances in sex toys**. Available from: <https://mst.dk/service/publikationer/publikationsarkiv/2006/sep/survey-and-health-assessment-of-chemicals-substances-in-sex-toys/>.
2. **Survey and release of chemical substances in "slimy" toys**. 2006. Available from: <https://mst.dk/service/publikationer/publikationsarkiv/2006/mar/survey-and-release-of-chemical-substances-in-slimy-toys/>.
3. Bothwell J. **Toy story: timeout for phthalates. Review of Selected 2007 California Legislation: Health and Safety** McGeorge School of Law. 2008:551. Available from: [https://heinonline.org/HOL/Page?handle=hein.journals/mcglr39&div=34&g\\_sent=1&casa\\_token=OFWh3CUSwfUAAAAA:oZeReVjRw-rCFSmbdVL21YdqNROJD7\\_qthpq40JDIUEW2jkki2go2ysj5KcCq1MpYzGRF4Gn&collection=journals](https://heinonline.org/HOL/Page?handle=hein.journals/mcglr39&div=34&g_sent=1&casa_token=OFWh3CUSwfUAAAAA:oZeReVjRw-rCFSmbdVL21YdqNROJD7_qthpq40JDIUEW2jkki2go2ysj5KcCq1MpYzGRF4Gn&collection=journals).
4. Capolongo S, Rebecchi A, Dettori M, Appolloni L, Azara A, Buffoli M, et al. **Healthy Design and Urban Planning Strategies, Actions, and Policy to Achieve Salutogenic Cities**. 2018;15(12):2698. Available from: <http://www.mdpi.com/1660-4601/15/12/2698>.

## FOOD

### Safety

- Centers for Disease Control and Prevention. **The Model Aquatic Health Code (MAHC): An All-inclusive Model Public Swimming Pool and Spa Code**. Atlanta, GA: US CDC; 2018 Jul. Available from: <https://www.cdc.gov/mahc/editions/current.html>.
- Firestone MJ, Hedberg CW. **Restaurant Inspection Letter Grades and Salmonella Infections, New York, New York, USA**. Emerg Infect Dis. 2018;24(12):2164-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30457518>.
- Interagency Food Safety Analytics Collaboration. **Foodborne illness source attribution estimates for 2016 for Salmonella, Escherichia coli O157, Listeria monocytogenes, and Campylobacter using multi-year outbreak surveillance data, United States**. Atlanta, GA and Washington, DC: U.S. Department of Health and Human Services, CDC, FDA, USDA-FSIS.; 2018 Nov. Available from: <https://www.cdc.gov/foodsafety/ifsac/pdf/P19-2016-report-TriAgency-508.pdf>.
- Okpala COR, Sardo G, Vitale S, Bono G, Arukwe AJCrifs, nutrition. **Hazardous properties and toxicological update of mercury: From fish food to human health safety perspective**. 2018;58(12):1986-2001. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/28394636>.
- Park M, Park K, Bahk G. **Interrelationships between Multiple Climatic Factors and Incidence of Foodborne Diseases**. 2018;15(11):2482. Available from: <http://www.mdpi.com/1660-4601/15/11/2482>.
- Public Health Agency of Canada. **FoodNet Canada annual report 2017**. Ottawa, ON: Public Health Agency of Canada; 2018. Available from: <https://www.canada.ca/en/public-health/services/surveillance/foodnet-canada/publications.html>.
- U.S. Food and Drug Administration, National Retail Food Team. **FDA report on the occurrence of foodborne illness risk factors in fast food and full-service restaurants, 2013-2014**. Silver Spring, MD: US FDA; 2018 Nov. Available from: <https://www.fda.gov/downloads/Food/GuidanceRegulation/RetailFoodProtection/FoodborneIllnessRiskFactorReduction/UCM625005.pdf>.

### Security

- Leroux J, Morrison K, Rosenberg M. **Prevalence and predictors of food insecurity among older people in Canada**. Int J Environ Res Public Health. 2018;15(11):2511. Available from: <http://www.mdpi.com/1660-4601/15/11/2511>.

## GENERAL

- Health related SDGs for Canada (interactive)**. Lancet (London, England). 2018. Available from: <https://www.thelancet.com/lancet/visualisations/gbd-SDGs>.

## HEALTH EQUITY

- Emrich T. **Blog: Beyond assessing and reporting: Acting on evidence of inequity in the in the maritime provinces**. Antigonish, NS: National Collaborating Centre for Determinants of Health, Saint Xavier University; 2018 Nov. Available from: <http://nccdh.ca/blog/entry/beyond-assessing-and-reporting-acting-on-evidence-of-inequity>.
- Emrich T. **Blogue: Au-delà de l'évaluation et de la communication des résultats : agir en présence d'iniquités dans les provinces maritimes**. Antigonish, NS: Centre de collaboration nationale des déterminants de la



santé, Saint Xavier University; 2018 novembre. Available from: <http://nccdh.ca/fr/blog/entry/beyond-assessing-and-reporting-acting-on-evidence-of-inequity>.

## HEALTH IMPACT ASSESSMENT

### INDOOR AIR

1. Azuma K, Kagi N, Yanagi U, Osawa H. **Effects of low-level inhalation exposure to carbon dioxide in indoor environments: A short review on human health and psychomotor performance.** Environ Int. 2018;121:51-6. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30172928>.

### NUISANCE CONTROL

### OUTDOOR AIR

1. Bari MA, Kindzierski WB. **Ambient volatile organic compounds (VOCs) in communities of the Athabasca oil sands region: Sources and screening health risk assessment.** Environ Pollut. 2018;235:602-14. Available from: <http://www.sciencedirect.com/science/article/pii/S0269749117317293>.
2. Boogaard H, van Erp AMJTLPH. **Assessing health effects of air quality actions: what's next?** 2018. Available from: [https://www.thelancet.com/journals/lanpub/article/PIIS2468-2667\(18\)30235-4/fulltext](https://www.thelancet.com/journals/lanpub/article/PIIS2468-2667(18)30235-4/fulltext).
3. Cole CA, Carlsten C, Koehle M, Brauer M. **Particulate matter exposure and health impacts of urban cyclists: a randomized crossover study.** Environ Health. 2018;17(1):78. Available from: <https://doi.org/10.1186/s12940-018-0424-8>.
4. Health Effects Institute. **State of global air/2018 a special report on global exposure to air pollution and its disease burden.** Boston, MA: Health Effects Institute; 2018 nOV. Available from: <https://www.stateofglobalair.org/sites/default/files/soga-2018-report.pdf>.
5. Kirk WM, Fuchs M, Huangfu Y, Lima N, O'Keeffe P, Lin B, et al. **Indoor air quality and wildfire smoke impacts in the Pacific Northwest.** Science & Technology for the Built Environment. 2018;24(2):149-59. Available from: <https://www.tandfonline.com/doi/abs/10.1080/23744731.2017.1393256>.
6. McVea DA, James L. **Wildfire smoke: Health effects and protective strategies.** UBC Medical Journal. 2018;10(1):5-6. Available from: <https://ubcmj.med.ubc.ca/files/2018/08/Feature-2.pdf>.
7. Mockrin MH, Fishler HK, Stewart SI. **Does Wildfire Open a Policy Window? Local Government and Community Adaptation After Fire in the United States.** Environ Manage. 2018;62(2):210-28. Available from: <https://www.fs.usda.gov/treearch/pubs/56375>.
8. Pinault L, Brauer M, Crouse DL, Weichenthal S, Erickson A, van Donkelaar A, et al. **Diabetes Status and Susceptibility to the Effects of PM2.5 Exposure on Cardiovascular Mortality in a National Canadian Cohort.** 2018;29(6):784-94. Available from: [https://journals.lww.com/epidem/Fulltext/2018/11000/Diabetes\\_Status\\_and\\_Susceptibility\\_to\\_the\\_Effects.6.aspx](https://journals.lww.com/epidem/Fulltext/2018/11000/Diabetes_Status_and_Susceptibility_to_the_Effects.6.aspx).
9. Raza W, Forsberg B, Johansson C, Sommar JN. **Air pollution as a risk factor in health impact assessments of a travel mode shift towards cycling.** Global Health Action. 2018;11(1):1429081. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29400262>.

10. Scheers H, Nawrot TS, Nemery B, Casas LJEH. **Changing places to study short-term effects of air pollution on cardiovascular health: a panel study**. 2018;17(1):80. Available from: <https://doi.org/10.1186/s12940-018-0425-7>.
11. World Health Organization. **Air pollution and child health: prescribing clean air**. Geneva, Switzerland: WHO; 2018 Oct. Available from: <http://www.who.int/ceh/publications/air-pollution-child-health/en/>.

## PERSONAL SERVICE ESTABLISHMENTS

## PEST CONTROL

## PHYSICAL AGENTS

1. Wright DM, Newell K, Maguire A, O'Reilly DJEH. **Aircraft noise and self-assessed mental health around a regional urban airport: a population based record linkage study**. 2018;17(1):74. Available from: <https://doi.org/10.1186/s12940-018-0418-6>.

## RADIATION

1. Miller AB, Morgan LL, Udasin I, Davis DL. **Cancer epidemiology update, following the 2011 IARC evaluation of radiofrequency electromagnetic fields (Monograph 102)**. Environ Res. 2018;167:673-83. Available from: <http://www.sciencedirect.com/science/article/pii/S0013935118303475>.

## RECREATIONAL AND SURFACE WATER

## RISK ASSESSMENT, COMMUNICATION

## SENIORS' ENVIRONMENTAL HEALTH

1. Lambert K, Bowatte G, Tham R, Lodge C, Prendergast L, Heinrich J, et al. **Greenspace and Atopic Sensitization in Children and Adolescents—A Systematic Review**. 2018;15(11):2539. Available from: <http://www.mdpi.com/1660-4601/15/11/2539>.
2. Vanaken G-J, Danckaerts M. **Impact of Green Space Exposure on Children's and Adolescents' Mental Health: A Systematic Review**. 2018;15(12):2668. Available from: <http://www.mdpi.com/1660-4601/15/12/2668>.

## TOBACCO, CANNABIS

1. Alberta Health. **Fact Sheet. Cannabis waste management**. Edmonton, AB: Government of Alberta; 2018 Oct. Available from: <http://www.naylornetwork.com/cww-nwl/articles/index-v3.asp?aid=532744&issueID=59452>.

## WASTE

1. Wang Y, Li J, An D, Tang J, Wang Y, Yang Y, et al. **Site selection for municipal solid waste landfill considering environmental health risks.** Resources, Conservation & Recycling. 2018;138:40-6. Available from: <https://www.sciencedirect.com/science/article/pii/S0921344918302532>.

## ZOONOSES

1. Espinosa L, Gray A, Duffy G, Fanning S, McMahon BJ. **A scoping review on the prevalence of Shiga-toxigenic Escherichia coli in wild animal species.** Zoonoses And Public Health. 2018;65(8):911-20. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/30099841>.
2. McVea DA, Himsworth CG, Patrick DM, Lindsay LR, Kosoy M, Kerr T. **Exposure to Rats and Rat-Associated Leptospira and Bartonella Species Among People Who Use Drugs in an Impoverished, Inner-City Neighborhood of Vancouver, Canada.** Vector Borne Zoonotic Dis. 2018;18(2):82-8. Available from: <https://www.ncbi.nlm.nih.gov/pubmed/29298408>.
3. Tick-Borne Disease Working Group. **2018 Report to Congress.** Washington, DC: U.S. Department of Health and Human Services; 2018 Nov. Available from: <https://www.hhs.gov/sites/default/files/tbdwg-report-to-congress-2018.pdf>.

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