ENVIRONMENTAL HEALTH RESEARCH SCAN
VOL 4 (2) FEBRUARY 2020

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, CANNABIS
• WASTE
• ZOONOSES

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

Neonicotinoid pesticides [topic page]
Shirra Freeman
“*This topic page is intended to provide updated resources on the human health risks associated with neonicotinoid exposure, safer alternatives and knowledge gaps.*”

Healthy Built Environment Forum newsletter
National Collaborating Centre for Environmental Health, Feb 2020 (Tina Chen)
“*This inaugural issue will highlight several forum sections and posts, new Healthy Built Environment (HBE) resources, grants and funding opportunities, and upcoming events and webinars.*”

Cooling tower registries and building water management plans: Strategies to combat Legionnaires’ Disease [blog]
Juliette O’Keeffe (right), Laura Zettler, Victoria Colling
“*…The reported occurrence of legionellosis is on the rise in Canada and the USA, which may be due to many factors…*”

NHA and the NCCEH: supporting Indigenous communities through a knowledge translation partnership [blog]
Casey Neathway, District Manager, First Nations Health Authority
“*…Given the ever-evolving nature of the field of environmental health, collaboration and partnerships are key to ensuring our work is timely, relevant, and evidence-based. FNHA and NCCEH were able to formalize this partnership.*”

A survey of raw frozen breaded chicken products for salmonella in British Columbia, Canada, and phylogenetically associated illnesses
Lorraine McIntyre (Food Safety Specialist, BC Centre for Disease Control) and co-authors
“*… A substantial reduction of risk and increased consumer protection may be achieved by implementing a kill step…*”
An investigation of mercury poisoning and home contamination: Success through multi-sectoral collaboration [seminar series]

Lori Holmes, Sunil Varughese, Vince Spilchuk

“This presentation will outline a recent case of mercury poisoning in an infant that led to a collaborative public health investigation involving provincial, federal and international public health stakeholders.”

Canada’s National Collaboration Centres for Public Health: Facilitating evidence-informed decision-making in public health

Alejandra Dubois, Mélanie Lévesque

“The NCCs successfully help to bridge the gaps between evidence, policy and practice and facilitate the implementation of evidence in multiple, often complex, settings.”


Theresa Tam, Chief Public Health Officer of Canada

“This year, my annual report provides a snapshot of key public health trends and shines a light on one of the drivers of health inequities: stigma.”

Case study: herbicide use in wild parsnip and giant hogweed control [case study]

Public Health Ontario

“…No evidence of adverse effects on human health from residual or low environmental level exposures to aminopyralid and metsulfuron-methyl, was identified during this review.”

The future of B.C.’s food system. Findings & recommendations from the B.C. Food Security Task Force

British Columbia Food Security Task Force

“…Our Task Force has been guided by a simple question: How can British Columbia lead the next agricultural revolution? We are proposing four bold yet achievable steps…”
SELECTED STAFF PUBLICATIONS (NCCEH)


BCCDC


2. Trmcic A, Man S, Tamber S, Prystajecky N, McIntyre L. A Survey of Raw Frozen Breaded Chicken Products for Salmonella in British Columbia, Canada, and Phylogenetically Associated...

INDIGENOUS ENVIRONMENTAL HEALTH

AGRICULTURAL OPERATIONS

BIOLOGICAL AGENTS

BUILT ENVIRONMENT


CHEMICAL AGENTS – METALS, GENERAL

General


### PCBs, PAHs, VOCs


### CHEMICAL AGENTS - PESTICIDES


**CHEMICAL AGENTS – SHALE GAS**


**CHILDREN’S ENVIRONMENTAL HEALTH**


CLIMATE CHANGE

COMMUNICABLE AND INFECTIOUS DISEASES
DRINKING WATER


**EMERGENCY PREPAREDNESS**


**ENVIRONMENTAL HEALTH SURVEILLANCE**
ENVIROMENTAL PLANNING


FOOD

Safety


Security


GENERAL

HEALTH EQUITY

HEALTH IMPACT ASSESSMENT

INDOOR AIR
NUISANCE CONTROL
OUTDOOR AIR
   green space, air pollution, socioeconomic deprivation and cardiovascular medication sales in
   and Associations with Depression, Anxiety, Bipolar, Psychosis and Suicide Risk: A Systematic
   Review and Meta-Analysis. Environ Health Perspect. 2019;127(12):126002-. Available from:
3. Deryugina T, Heutel G, Miller NH, Molitor D, Reif J. The Mortality and Medical Costs of Air
   Research & Policy Center; USPIRG Education Fund; Frontier Group; 2020 Winter. Available from:
5. Robichaud A. An overview of selected emerging outdoor airborne pollutants and air quality issues:
   the need to reduce uncertainty about environmental and human impacts. Journal of the Air &
6. Wen Y, Leng J, Shen X, Han G, Sun L, Yu F. Environmental and Health Effects of Ventilation in
7. Yuchi W, Sbihi H, Davies H, Tamburic L, Brauer M. Road proximity, air pollution, noise, green space

PERSONAL SERVICE ESTABLISHMENTS
PEST CONTROL
PHYSICAL AGENTS
1. Barbosa F, Adeyemi JA, Bocato MZ, Comas A, Campiglia A. A critical viewpoint on current issues,
   limitations, and future research needs on micro- and nanoplastic studies: From the detection to
   the toxicological assessment. Environ Res. 2020;182:109089. Available from:
   Kingdom Policy Context: A Systematic Review of the Effects of Environmental Noise on Mental
   Health, Wellbeing, Quality of Life, Cancer, Dementia, Birth, Reproductive Outcomes, and
   Air pollution, noise and lack of greenness as risk factors for Alzheimer’s disease- epidemiologic
   and experimental evidence. Neurochem Int. 2020;134:104646. Available from:

RADIATION

RECREATIONAL AND SURFACE WATER

RISK ASSESSMENT, COMMUNICATION

SENIORS’ ENVIRONMENTAL HEALTH

TOBACCO, CANNABIS
WASTE


ZOONOSES


For more on environmental health information and evidence, visit NCCEH.ca