

Association pour la santé environnementale du Québec Environmental Health Association of Québec



Environmental Health Association of Canada Association pour la santé environnementale du Canada

RESOURCES

Empowering Community and Removal of Barriers (ECRoB)

Eliminating Barriers for People with Multiple Chemical Sensitivities (MCS):

Creating Accessible and Inclusive Environments

Environmental Health Association of Québec

Environmental Health Association of Canada

Association pour la santé environnementale du Québec - Environmental Health Association of Québec Environmental Health Association of Canada - Association pour la santé environnementale du Canada CP 364, Saint-Sauveur, Québec JOR 1R1 aseq-ehac.ca 514 332 4320



1. Anne Steinmann's research on everyday VOC exposure:

Fragranced products (2020): https://link.springer.com/article/10.1007/s11869 -020-00928-1

Pandemic products and toxic VOC emissions (2021): https://link.springer.com/article/10.1007/s11869 -020-00912-9

Car air fresheners and toxic VOC emissions (2020): https://link.springer.com/article/10.1007/s11869 -020-00886-8

Common household products and toxic VOC emissions (2019): https://link.springer.com/article/10.1007/s11869 -019-00754-0

<u>Fragranced laundry product and dryer vent emissions (2021):</u> https://link.springer.com/article/10.1007/s11869 -020-00929-0

- 2. Damiani et al. (2021) Italian Expert Consensus on Clinical and Therapeutic Management of Multiple Chemical Sensitivity (MCS) <u>https://www.mdpi.com/1660 -4601/18/21/11294</u>
- 3. Hu and Baines (2018) Ontario Ministry of Health Taskforce findings https://www.cfp.ca/content/64/6/413.short
- 4. Masri et al. (2021) Toxicant -induced loss of tolerance for chemicals, foods, and drugs: assessing patterns of exposure behind a global phenomenon https://enveurope.springeropen.com/articles/10.1186/s12302-021-00504-z
- 5. Molot, Sears and Anisman (2023) "It's Time to Catch Up With the Science" https://www.sciencedirect.com/science/article/pii/S0149763423001963?via%3Dihub
- 6. Molot et al. (2021) Neurological susceptibility to environmental exposures: pathophysiological mechanisms in neurodegeneration and multiple chemical sensitivity https://www.degruyter.com/document/doi/10.1515/reveh-2021-0043/html
- 7. <u>The Impact of COVID-19 Health Measures on Adults With Multiple Chemical Sensitivity:</u> <u>Cross-Sectional Study</u>



Bray R, Wang Y, Argiropoulos N, Robins S, Molot J, Pigeon MA, Gaudet M, Auger P, Bélanger E, Peris R. The Impact of COVID-19 Health Measures on Adults With Multiple Chemical Sensitivity: Cross-Sectional Study. JMIR Form Res. 2024 Jul 17;8

. doi: 10.2196/48434. PMID: 39018551. https://formative.jmir.org/2024/1/e48434

RESEARCH ON EXPOSURE INEQUITIES

- Miriam Diamond's research on exposure inequities
 WAN Y, DIAMOND, ML, & SIEGEL, JA. 2020. Elevated Concentrations of Semi-volatile
 Organic Compounds in Social Housing Multi-unit Residential Building Apartments. Environ
 Sci Technol Lett.
 <u>https://doi.org/10.1021/acs.estlett.0c00068</u>
- 2. Other research on exposure inequities PM Concentrations higher in Toronto social housing buildings (2022) https://www.sciencedirect.com/science/article/abs/pii/S2210670721007691
- The nationally representative 2007 -2010 Canadian House Dust Study (2022) associations between house dust, chemical exposure, and characteristics of housing interiors (such as air fresheners, carpet, cat products) https://www.mdpi.com/1660-4601/19/16/10329
- 4. UCLA bibliography of academic articles about the intersections of chemical exposure, environmental inequity, MCS, and gender <u>https://csw.ucla.edu/wp-content/uploads/2017/03/CE_WG_Master_Bibliography_11.2017.pdf</u>

MCS CLINICAL ASSESSMENT AND EDUCATION

- Marshall et al. (2002) "Identifying and managing adverse environmental health effects: Taking an exposure history:" CH2OPD2 mnemonic (Community, Home, Hobbies, Occupation, Personal habits, Diet and Drugs) <u>https://www.cmaj.ca/content/166/8/1049.long</u>
- 2. Damiani et al. (2021) Italian Expert Consensus on Clinical and Therapeutic Management of Multiple Chemical Sensitivity (MCS) https://www.mdpi.com/1660-4601/18/21/11294
- 3. Video Diagnostic Consensus Criteria https://www.youtube.com/watch?v=azVbJJ2fl0I&t=19s

Association pour la santé environnementale du Québec - Environmental Health Association of Québec Environmental Health Association of Canada - Association pour la santé environnementale du Canada



- 4. Link to the Chemical Intolerance Self -Assessment (BREESI & QEESI) from the University of Texas Health San Antonio <u>https://tiltresearch.org/qeesi -2/</u>
- 5. Toxicant Induced Loss of Tolerance (TILT) booklet https://issuu.com/elisco/docs/tilt_ebook_

SUPPORT FOR MCS PATIENTS

- 1. Video: What is MCS? https://www.youtube.com/watch?v=ZZ4D0sgHJdQ
- Managing Multiple Chemical Sensitivity (MCS) for Healthcare Providers and Patients
 <u>https://aseq-ehaq.ca/en/managing-multiple-chemical-sensitivity-mcs-for-healthcare-providers-and-patients/</u>
- 3. Step-by-step environment al management for MCS https://aseq-ehaq.ca/en/biologicalvideos/

4. Managing life with MCS https://aseq-ehaq.ca/en/social-toolbox/ https://aseq-ehaq.ca/en/biological-toolbox/

- 5. Videos on best management of MCS https://aseq-ehaq.ca/en/socialvideos/
- 6. The Legal Aspect of MCS: Includes sample letters for accommodation, and include documents on the duty to accommodate, dispute resolution, province specific human rights, and videos https://aseq-ehaq.ca/en/legal-2/

DISABILITY RECOGNITION AND ACCOMMODATIONS

1. Canadian Human Rights Commission, Policy on environmental sensitivities (Multiple Chemical Sensitivity)

https://www.chrc -ccdp.gc.ca/en/resources/publications/environmental -sensitivities-andscent-free-policies

Association pour la santé environnementale du Québec - Environmental Health Association of Québec Environmental Health Association of Canada - Association pour la santé environnementale du Canada



- Canadian Center for Occupational Health and Safety (CCOHS) Scent -Free Policy for the Workplace https://www.ccohs.ca/oshanswers/hsprograms/scent_free.html
- Guidelines: Accessible service delivery during emergencies including COVID -19 (includes Multiple Chemical Sensitivities) https://accessible.canada.ca/resources/accessible -service-delivery-during-emergencies
- 4. Creating an Accessible Emergency Response Plan: Guidelines for Federally Regulated Organizations (includes Multiple Chemical Sensitivities) <u>https://accessible.canada.ca/resources/creating -accessible-emergency-response-plan-guidelines</u>
- 5. Artificial scents have no place in our hospitals CMAJ, November 3, 2015, 187(16) https://aseq-ehaq.ca/wp-content/uploads/2020/07/artificial -scents-hospitals.pdf
- 6. The Case for Making Health -Care Fragrance -Free https://aseq -ehaq.ca/en/resources/fragrance/
- 7. Fragrance Free Poster Why Fragrance Free Facilities? *Fragrance is the new second hand smoke*. (You can place your organization logo on these posters)

https://aseq -ehaq.ca/pdf/fragrance -free_Colour_EN.pdf https://aseq -ehaq.ca/pdf/fragrance -free_B-W-1-EN.pdf

MCS EXPOSURE PREVENTION RESOURCES

- 1. ASEQ-EHAQ Eco Living Guide https://EcoLivingGuide.ca
- 2. Environmental Working Group Product Guides: EWG Skin Deep Database (assesses over 97 000 personal care products): https://www.ewg.org/skindeep/_____

EWG Guide to Healthy Cleaning (assesses over 2500 cleaning products): <u>https://www.ewg.org/guides/cleaners/</u>

EWG (2023) Article "What are VOCs?" <u>https://www.ewg.org/news - insights/news/2023/09/what -are-vocs</u>

3. Nova Scotia Integrated Chronic Care Service (ICCS) (2022) Approved Scent -Free Product Guide and (2018) Scent -Free Resource Binder

Association pour la santé environnementale du Québec - Environmental Health Association of Québec Environmental Health Association of Canada - Association pour la santé environnementale du Canada



https://www.nshealth.ca/sites/nshealth.ca/files/patientinformation/1943.pdf

4. UCLA Center for the Study of Women Fragrance -Free Toolkit https://csw.ucla.edu/toolkit

MCS DISABILITY ADVOCACY

- 1. The Legal Rights and Challenges Faced by Persons with Chronic Disability Triggered by Environmental Factors https://archdisabilitylaw.ca/resource/paper-the-legal-rights-and-challenges-faced-bypersons-with-chronic-disability-triggered-by-environmental-factors/
- 2. Letter Template for Clinicians https://aseq-ehaq.ca/wp-content/uploads/2021/04/Letter-of-support-EN_Website.pdf
- 3. Canadian Human Rights Commission Duty to Accommodate and Policy on Environmental Sensitivities <u>https://www.chrc-ccdp.gc.ca/en/about-human-rights/what-the-duty-accommodate</u>

https://www.chrc-ccdp.gc.ca/en/resources/publications/policy-environmental-sensitivities

- UCLA Center for the Study of Women compilation of resources on gender, race, class, and chemical sensitivity <u>https://csw.ucla.edu/cswresearch/chemical-entanglements/</u>
- 5. Article (2003) supporting the view that "chemical -free living space and chemical avoidance were rated by 95% of respondents as helpful" https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1241653/pdf/ehp0111-001498.pdf
- 6. Canadian Center for Occupational Health and Safety (CCOHS) https://www.ccohs.ca/oshanswers/hsprograms/scent_free.html
- 7. Perales et al. (2022) study demonstrating that air quality accessibility interventions improve MCS <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8822326/</u>
- 8. Artificial scents have no place in our hospitals CMAJ, November 3, 2015, 187(16) https://aseq-ehaq.ca/wp-content/uploads/2020/07/artificial-scents-hospitals.pdf

Association pour la santé environnementale du Québec - Environmental Health Association of Québec Environmental Health Association of Canada - Association pour la santé environnementale du Canada



- 9. Fragrance Free Poster (Why Fragrance Free Facilities? Fragrance is the new second hand smoke) https://aseq -ehaq.ca/pdf/fragrance - free Colour EN.pdf https://aseq -ehaq.ca/pdf/fragrance - free B-W-1-EN.pdf
- 10. Multiple Chemical Sensitivity: Chemical indoor air pollution is the new tobacco <u>https://aseq-ehaq.ca/en/multiple-chemical-sensitivity-chemical-indoor-air-pollution-is-the-new-tobacco/</u>
- **11.**Canadian Committee on Indoor Air Quality: Module 6, Scent -Free Buildings https://iagresource.ca/wp -content/uploads/2019/06/CCIAQB -Module-6-Eng.pdf
- 12. Canadian Committee on Indoor Air Quality: Module 13, Addressing Chemical Sensitivities https://iaqresource.ca/wp -content/uploads/2020/09/CCIAQB -Module13-Eng.pdf