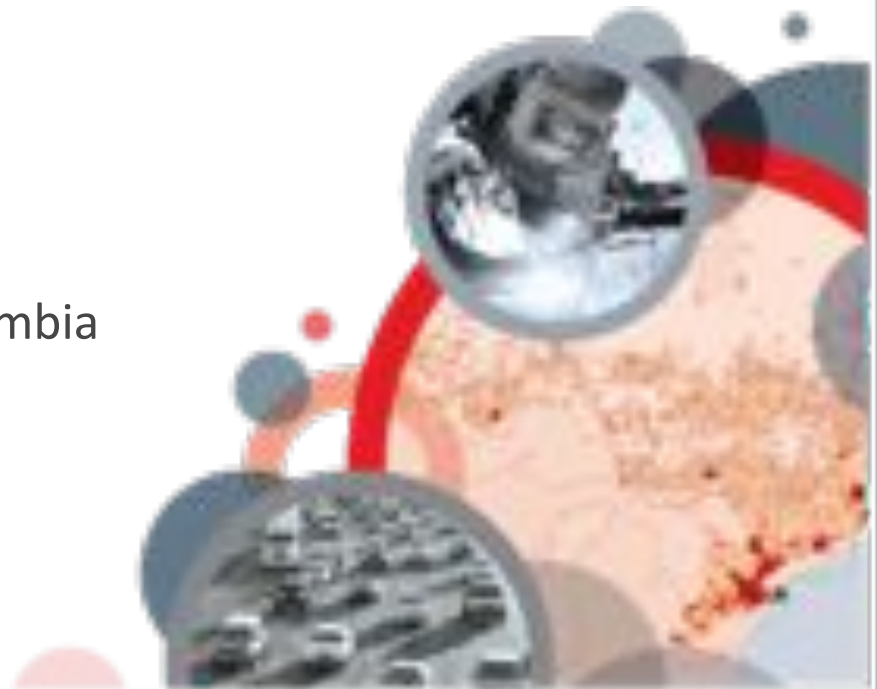

Lessons Learned: Using Indicators of Exposure for Policy and Program Development

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What does CAREX have to offer?

Website platform, including carcinogen database

Substance profiles

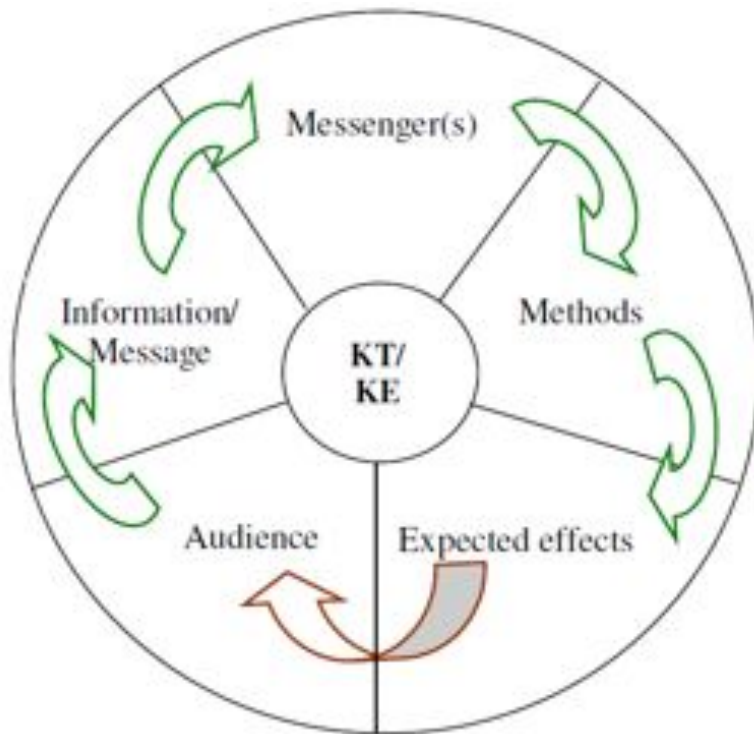
Occupational exposure estimates, approach, methods

Environmental exposure estimates, approach, methods

Interactive tools allow users to explore and use CAREX data:

- Emissions Mapping Project (EMP)
- Upcoming: eRISK, eWORK
- Upcoming: Workplace Exposures Mobile Tool

Knowledge exchange approach and audiences



Imagine Canada, 2007

- Non-government organizations
- Academic / research
- Provincial government and agencies
- Professional groups
- Federal government and agencies
- Organized labour
- First Nations groups

Examples of Partnerships

Acting as Advisory Committee members

Applying CAREX data to their prevention efforts and research projects

Beta testing of CAREX tools (ie EMP, eRISK, quick summaries)

Partnering to submit funding applications to develop those tools

Understanding distribution of cancer cases



BC Cancer Agency

CARE + RESEARCH

An agency of the Provincial Health Services Authority

BC Cancer Agency - Cancer genetics group

Conducting environmental carcinogen exposure assessment (arsenic, radon, air pollution) for lung cancer cases in BC based on residential postal codes; cancer genetics group is looking to explore associations between molecular markers in lung cancer tumors and different exposures.

Developing capacity for prevention work



First Nations Environmental Health Innovation Network:

Collaborating with FNEHIN and the Assembly of First Nations (AFN) to develop the EMP and providing in-person training workshops on this tool.

Helping to prioritize prevention efforts



Alberta Health Services: (public health division)

Provided CAREX data for a comprehensive report on nine common occupational carcinogens and estimates of the relative impacts of these carcinogens on Albertans.

Helping to address existing data gaps



Manitoba Labour and Immigration: (funded by WCB-MB)

Converting a selection of available occupational exposure data into a CAREX-compatible digital format.

Dalhousie University: (Population Cancer Research Program)

Supplying both expertise and CAREX data to investigate modeling of arsenic exposure from well water.



Addressing need for accessible information



CARCINOGEN QUICK SUMMARY

Benzene

Known carcinogen ☒
Probable carcinogen ☐
Possible carcinogen ☐

What is it?

Benzene is a clear, usually colourless liquid that smells like gasoline. It occurs as a natural part of crude oil and can be synthesized from coal and from petroleum.

Benzene is released during the burning of coal and oil. It is also found in cigarette smoke, gas service station emissions and vehicle exhaust.

Where is it found?

Benzene is used mostly as an ingredient in the production of other chemicals. It is used in the oil and gas, transportation, petroleum, and chemical manufacturing industries. It is also present at gas stations, and in areas of vehicle traffic.

What are its health effects?

Cancer:

Benzene is associated with certain blood and immune system cancers. It is also considered a "non-threshold toxicant," meaning that adverse effects may occur at any level of exposure.

Non-cancer:

Benzene is also associated with non-cancerous effects to the immune, lymph, and nervous systems. Short-term exposure can cause drowsiness, headaches, and unconsciousness. The effects of long-term exposure include anaemia, neuropathies, and memory loss. Benzene is also a skin irritant.

How are people exposed?

The primary route of exposure is inhalation via indoor and outdoor air. Exposure may also occur via skin, through drinking water, or through food and beverages.



Promoting prevention of occupational cancer



UBC's eHealth Strategy Office:

Integrating CAREX data on a mobile tool interface – for use on smartphones, tablets and computers

Designed for physicians, their patients, and other occupational health professionals



CAREX Canada – Ways to explore and connect



Visit our website:

- Explore profiles, estimates, tools
- Use online tutorials for various tools



Sign up for our e-Bulletin:

- Stay tuned for future webinars
- Get latest updates on data and tools



Follow us on twitter at @CAREXCanada

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