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Author

Bethany Verma

Organization

Lung Saskatchewan – Saskatoon, SK

Title

"My Radon Risk": An Interactive Radon Platform for Risk Communication

Abstract

Using over 12,000 anonymized radon measurements, Lung Saskatchewan, with support from partners, developed "My Radon Risk", an interactive, web-based mapping tool that translates over a decade of radon test data into an accessible public resource, fostering both individual and population-level engagement.

The platform allows users to explore localized radon levels within the context of national guidelines at their own pace, with visualization and storytelling techniques to enhance interpretability and promote knowledge mobilization. Interactive features include personalized risk calculators, opportunities for residents in underrepresented areas to contribute new data, and narratives from both real individuals diagnosed with radon-induced lung cancer, and the fictional "Larson family," to humanize the data and encourage informed health behaviours. Overall, the main goal is to promote increased testing in Saskatchewan and beyond, while reducing inequities in environmental health knowledge and technological literacy.

This tool advances environmental epidemiology and health communication by demonstrating how geospatial data and community narratives can inform evidence-based interventions, promote health equity, and guide policy development.