Radon risk areas and lung cancer mortality trends in British Columbia

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The only way to **know** is to measure...

<table>
<thead>
<tr>
<th>Radon Level (Bq/m³)</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;200</td>
<td>Below Health Canada guideline</td>
</tr>
<tr>
<td>200 - 600</td>
<td>Fix within <strong>2 years</strong></td>
</tr>
<tr>
<td>&gt;600</td>
<td>Fix within <strong>1 year</strong></td>
</tr>
</tbody>
</table>
No other risk factors

Hypothetical

Lung Cancer / All Natural

- Low Radon
- Moderate Radon
- High Radon
All deaths

Female

Lung Cancer / All Natural

Low Radon
Moderate Radon
High Radon

Canadian Housing Stock and Estimated Lung Cancer Mortality

- 94% of Housing Stock
- 72% of Health Burden

Key Messages

- Limited data require careful interpretation
- Most radon-related lung cancers occur below current 200 Bq/m$^3$ threshold
- Clear temporal trends in by radon risk areas of BC
- Trends persist at 50 Bq/m$^3$ threshold
- Women appear to be at higher risk