

Reality check: Excess and "missing" deaths, and their implications for prevention

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Occ-COVID series, March 25, 2022

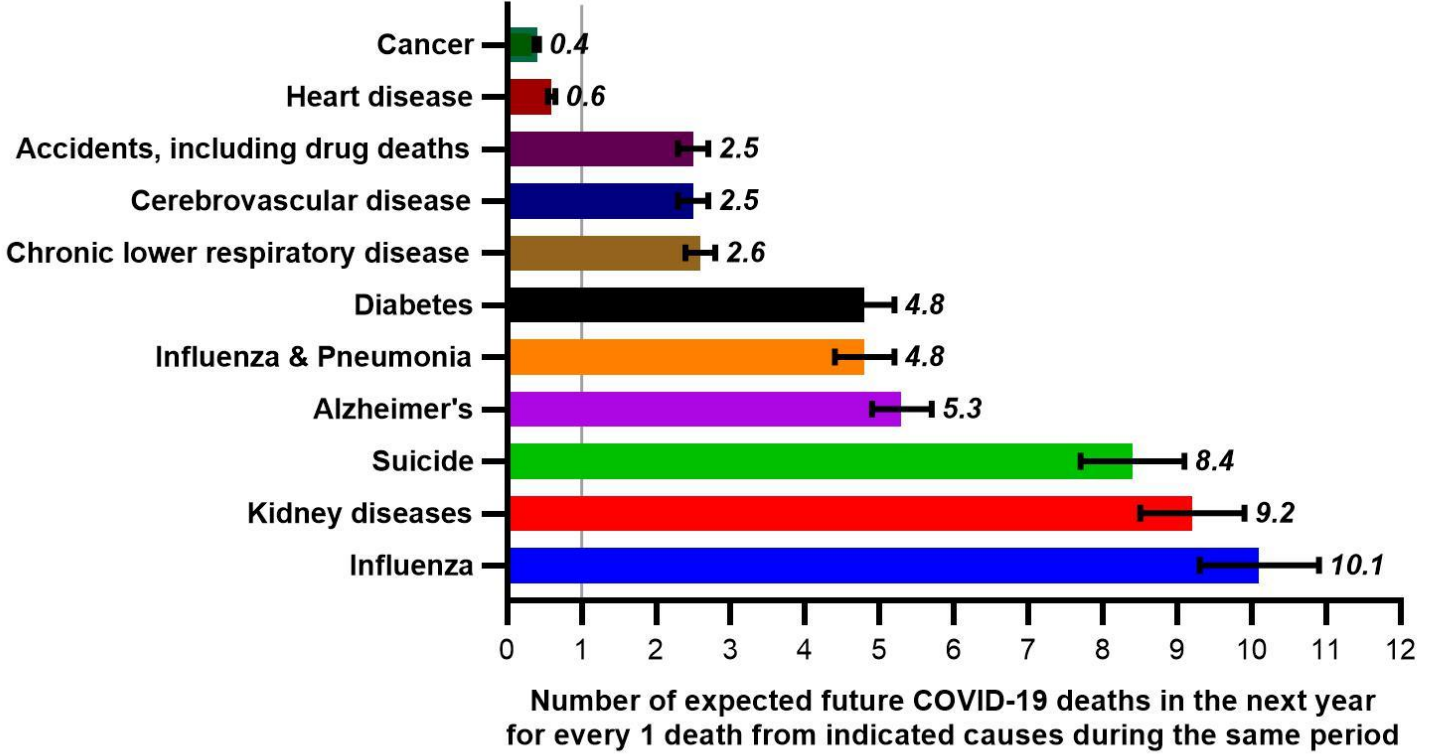
Outline

1. Future estimated COVID-19 mortality compared to top 10 causes of death in Canada
2. Estimated total undetected/ unreported Omicron deaths to date
3. Estimated total % population infected with Omicron
4. Estimated % people 40+ susceptible to future Omicron infection
5. How do we effectively communicate current risk?
 - a. *Resources for estimating personal and population risk*
 - b. *Estimating current actual infection trends*
 - c. *Applying estimated actual infection numbers and trends to communicate current risk*
 - d. *In the works*

**Future
estimated
COVID-19
mortality
compared to
top 10 causes
of death in
Canada**

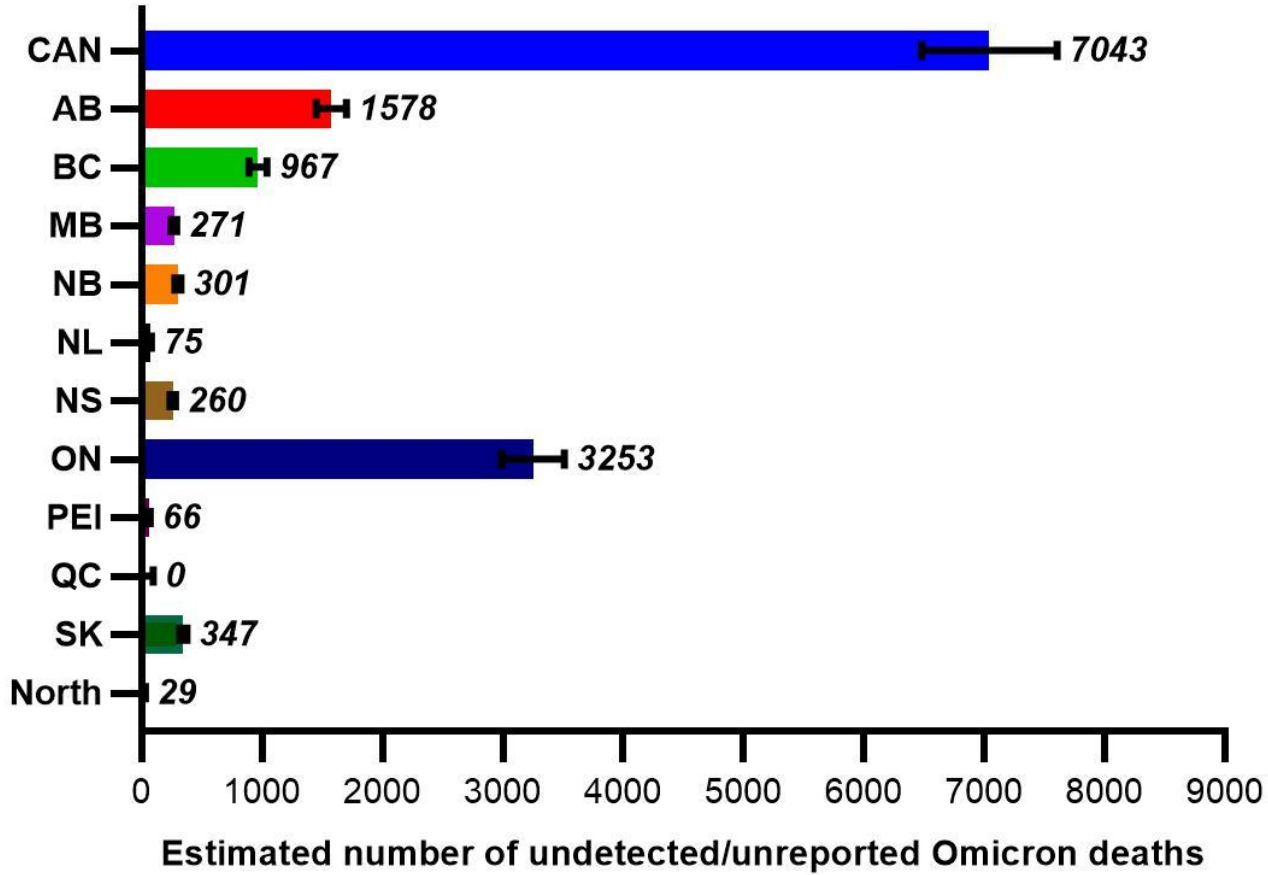
Total expected COVID-19 deaths in Canada after Mar 3/22 compared to total expected deaths from top 10 causes of mortality in Canada

Assumption: if remainder of population not already infected with Omicron is infected in coming 12 months



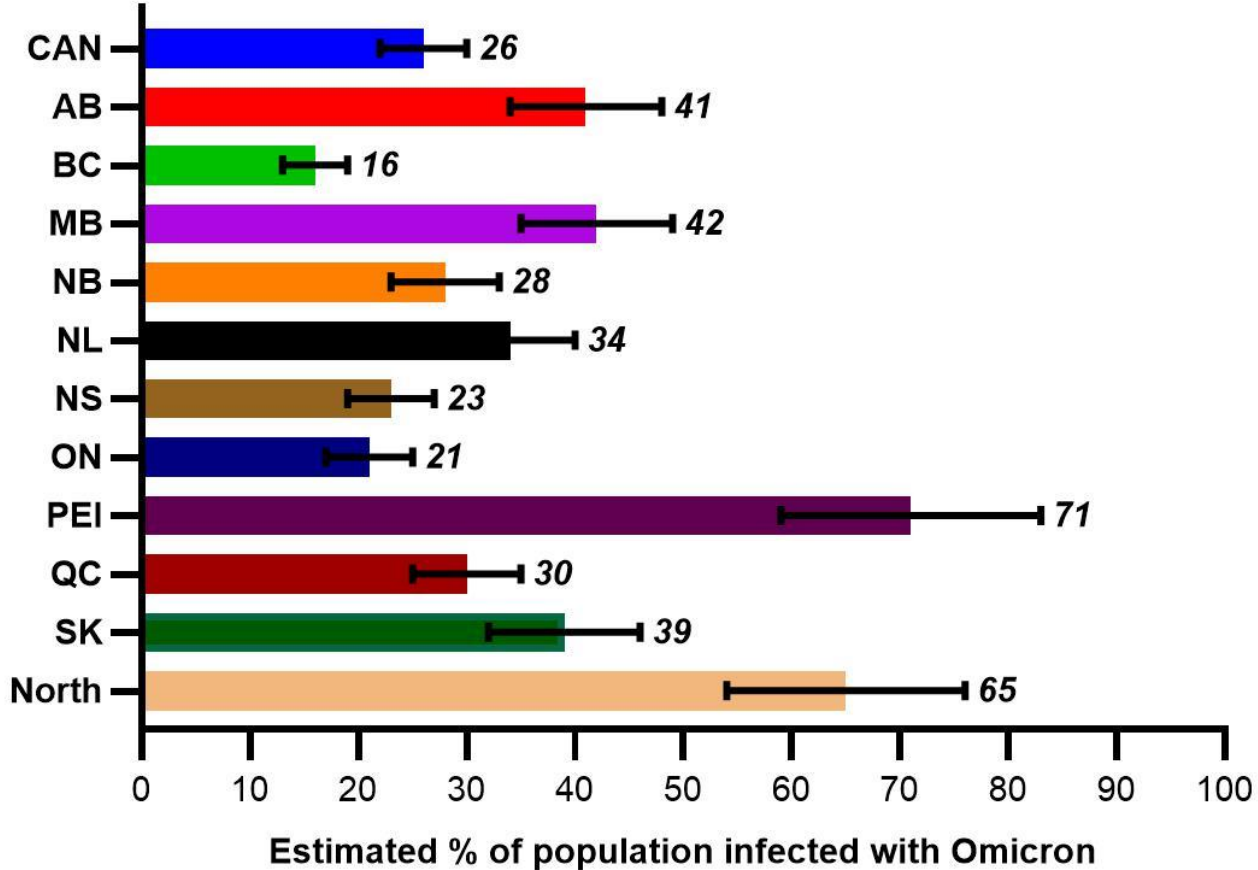
Estimated total undetected/unreported Omicron deaths to date

Estimated total undetected/unreported Omicron deaths from infections Dec 16/21 to Mar 12/22



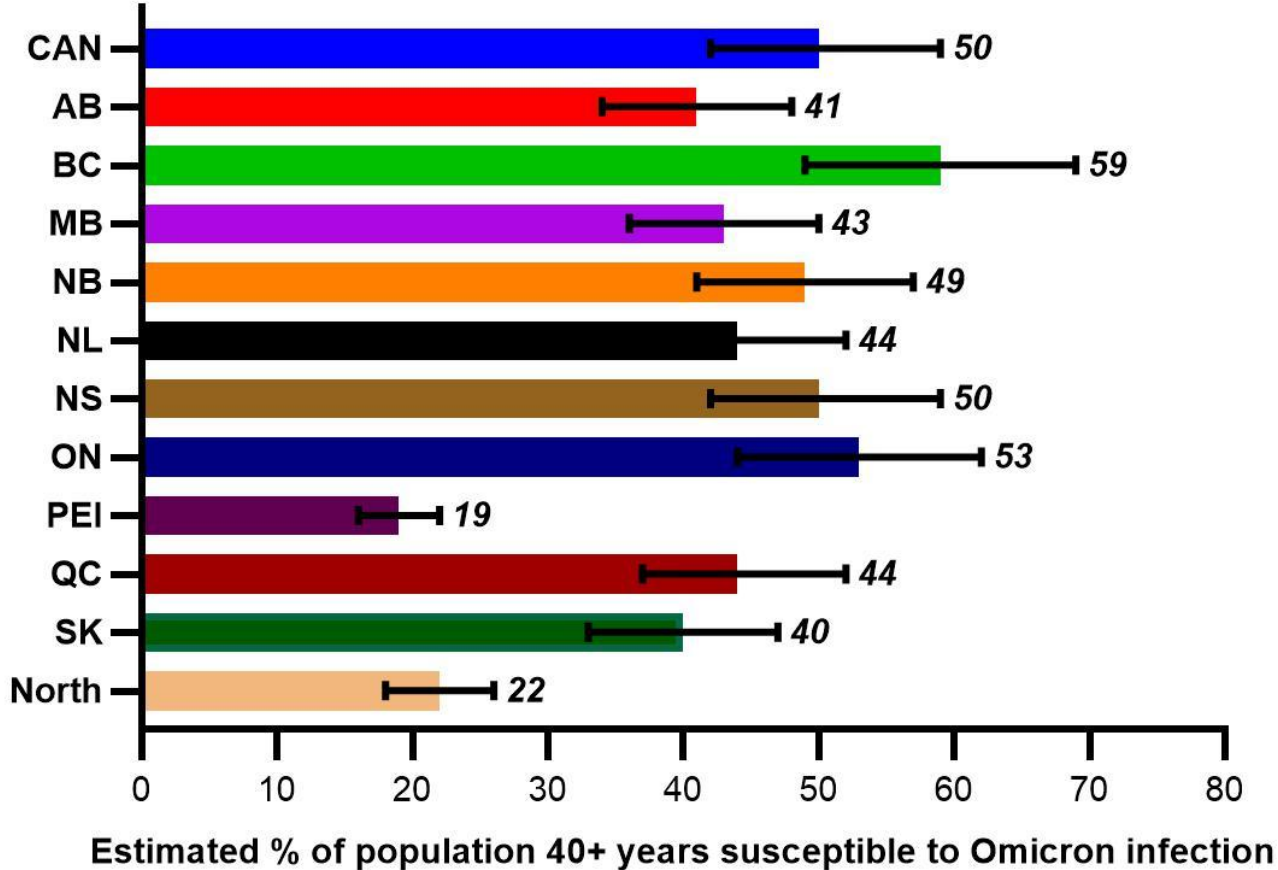
*Estimated
total %
population
infected with
Omicron*

Estimated % of population infected with Omicron
from Dec 2/21-Mar 3/22



*Estimated %
people 40+
susceptible to
future
Omicron
infection*

Estimated % of people 40 and older
susceptible to future Omicron infection as of Feb 27/22



How do we communicate current risk so that people understand what they need to do and why?

Resources for estimating personal and population risk

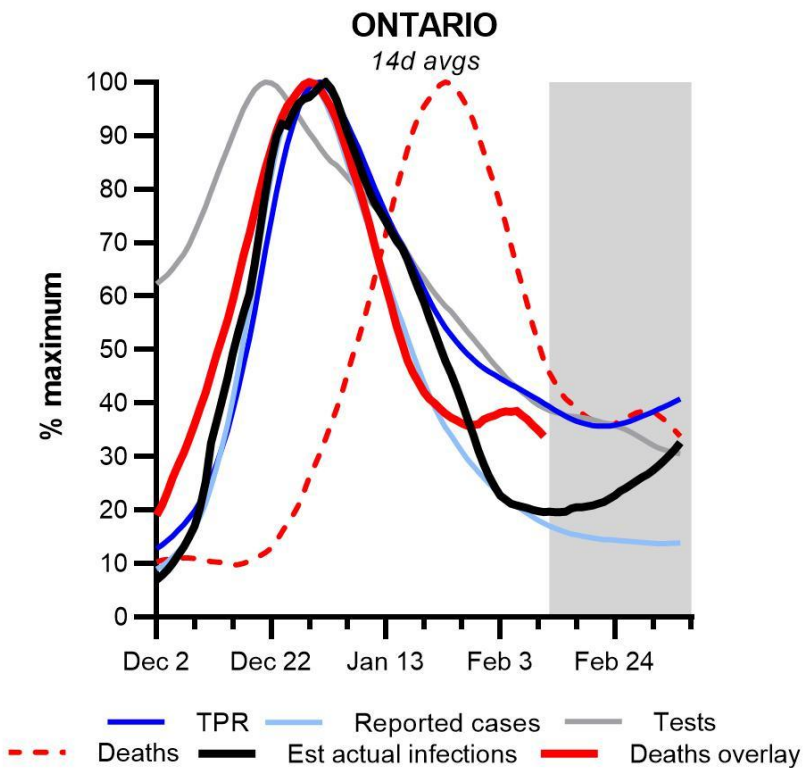
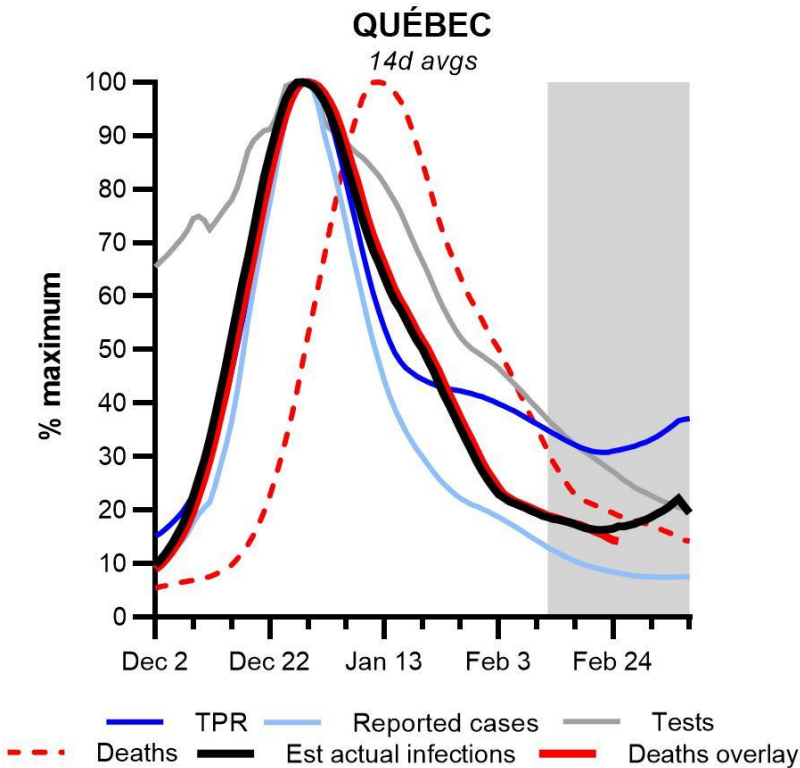
INDIVIDUAL (PERSONAL) RISK IF INFECTED

- INDIVIDUAL risks of severe Omicron outcomes by age and vaccination status:
<https://docs.google.com/spreadsheets/d/1Si90h5H5Sz-SqAsxwjNa3LJq1hEk5-5WCAWyhaxwfdw/edit?usp=sharing>
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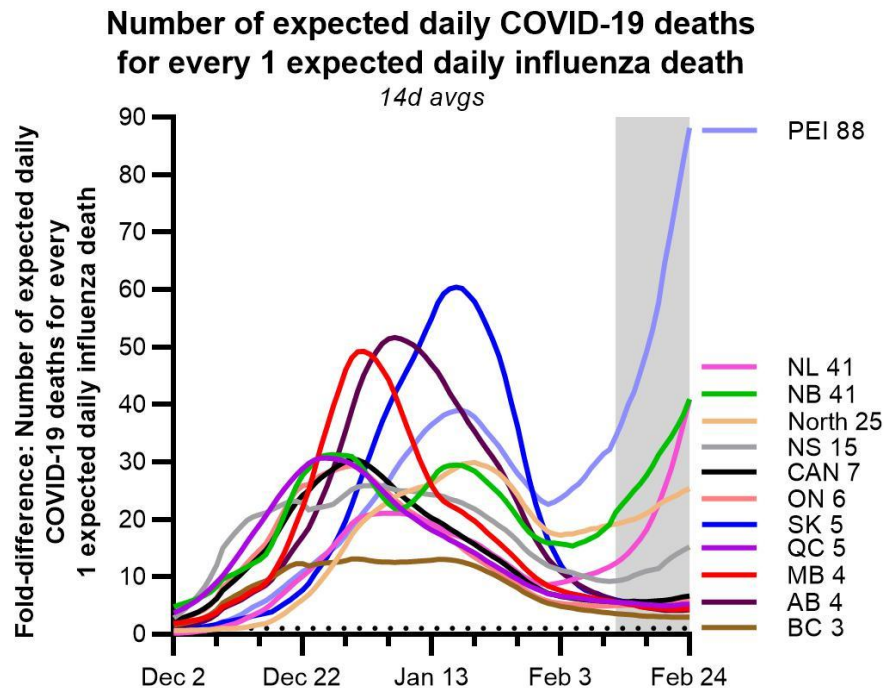
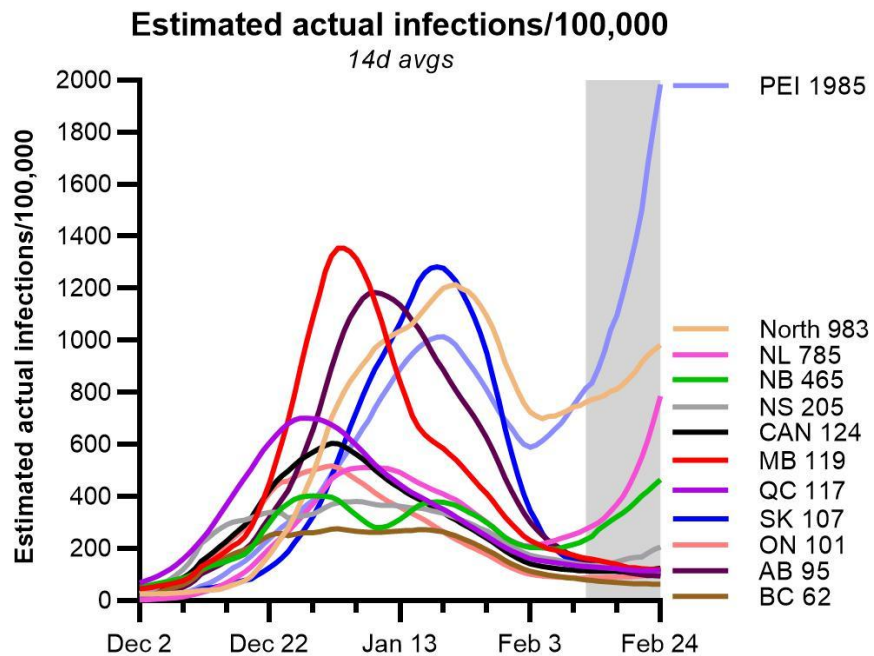
POPULATION RISK

- Canadian regions est. TOTAL future severe outcomes, **if everyone infected**:
https://docs.google.com/spreadsheets/d/1XUbN-bZOoC87_GcJQQvLRdSsgmDxjZTMHzEelEtCr_8/edit?usp=sharing
- Canadian regional of future severe outcomes **if everyone infected**:
https://docs.google.com/spreadsheets/d/1hN6ctXjMsnGJ8G6MeaA6lsc9sT5tEMYnqeZi0UIk_As/edit?usp=sharing

Estimating current actual infection trends



Applying estimated actual infection numbers and trends to communicate current risk



In the works

Current COVID-19 risk meter

- <https://docs.google.com/spreadsheets/d/1-rnp31c6nCYJyfaCFBurSHVShOFaqTF2TVsnlKbu4g/edit?usp=sharing>

Useful parameters/formats? **FEEDBACK/SUGGESTIONS NEEDED**

- Effects of different kinds of masks on personal and population risk of future severe outcomes
- LongCOVID personal and population risks

Thank you!

Questions, comments, suggestions?