

## Canada COVID-19 epidemic models situation report No 43 - 2022-04-15

Farshad Pourmalek MD PhD

Former lecturer, University of British Columbia, Vancouver | [UBC SPPH](#) | [ORCID](#) | [PubMed](#)  
[pourmalek\\_farshad@yahoo.com](mailto:pourmalek_farshad@yahoo.com)

**Combine and visualize international periodically updated estimates of COVID-19 pandemic  
at the country level, countries with subnational level estimates  
Canada**

Based on uptake 20220415 in <https://github.com/pourmalek/CovidVisualizedCountry>

**DELP 20220415, IHME 20220408, no IMPE, SRIV 20220413, No PHAC**

Days old: DELP 0, IHME 7, no IMPE, SRIV 2

The latest available IMPE update (i.e., 2022-01-31) is 75 days old on 2022-04-15. Not included.

The [latest update of the PHAC-McMaster model](#) is 57 days old. Not included.

## Summary 20220415:

Though the models' results are divergent regarding the future trajectory of cases (or infections) and deaths, the official reported cases and deaths are on the rise at the national and provincial levels, sooner and at a rate faster (worse) than what the models predict.

DELP: [model by Massachusetts Institute of Technology, Cambridge](#)

IHME: [model by Institute for Health Metrics and Evaluation, Seattle](#)

IMPE: [model by Imperial College, London](#)

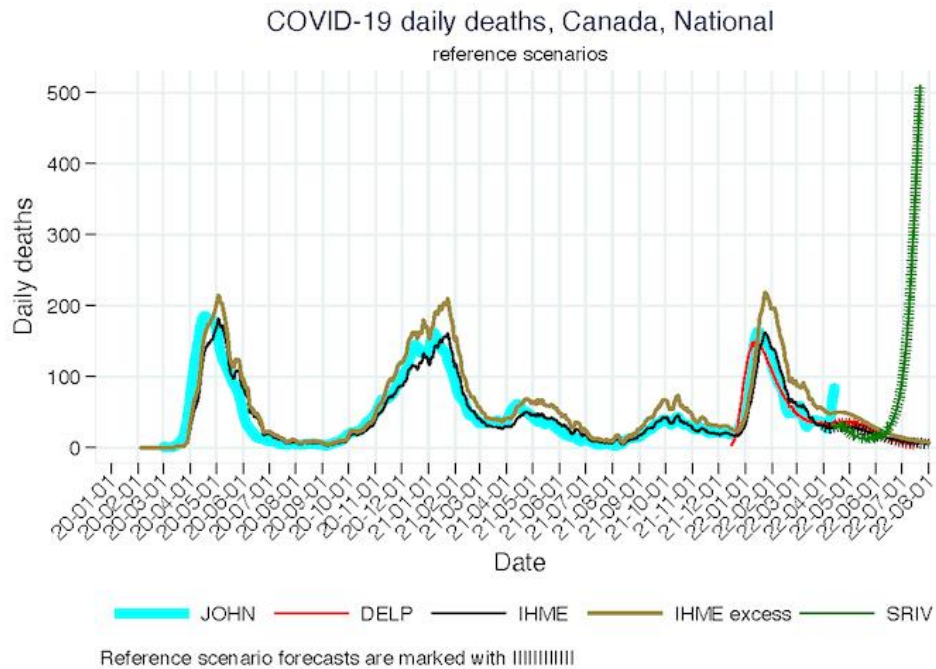
SRIV: [model by Srivastava, Ajitesh, University of Southern California, Los Angeles](#)

## Table of Graphs

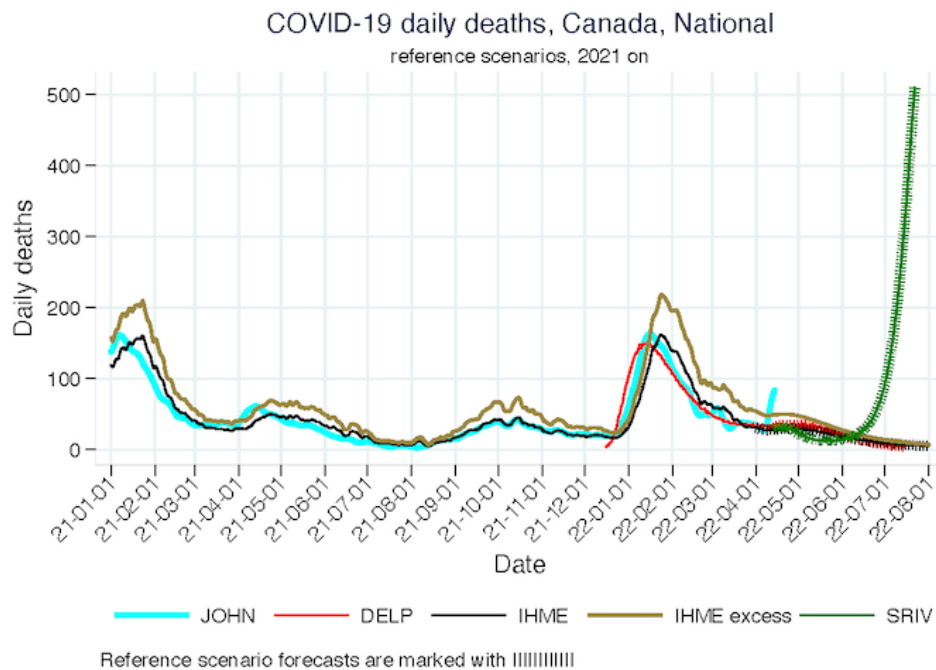
Selected graphs - Canada, National.....	3
Selected graphs - Canada, Provinces together.....	9
Selected graphs - Alberta .....	17
Selected graphs - British Columbia.....	20
Selected graphs - Manitoba.....	23
Selected graphs - Nova Scotia .....	26
Selected graphs - Ontario .....	29
Selected graphs - Quebec.....	32
Selected graphs - Saskatchewan .....	35

## Selected graphs - Canada, National

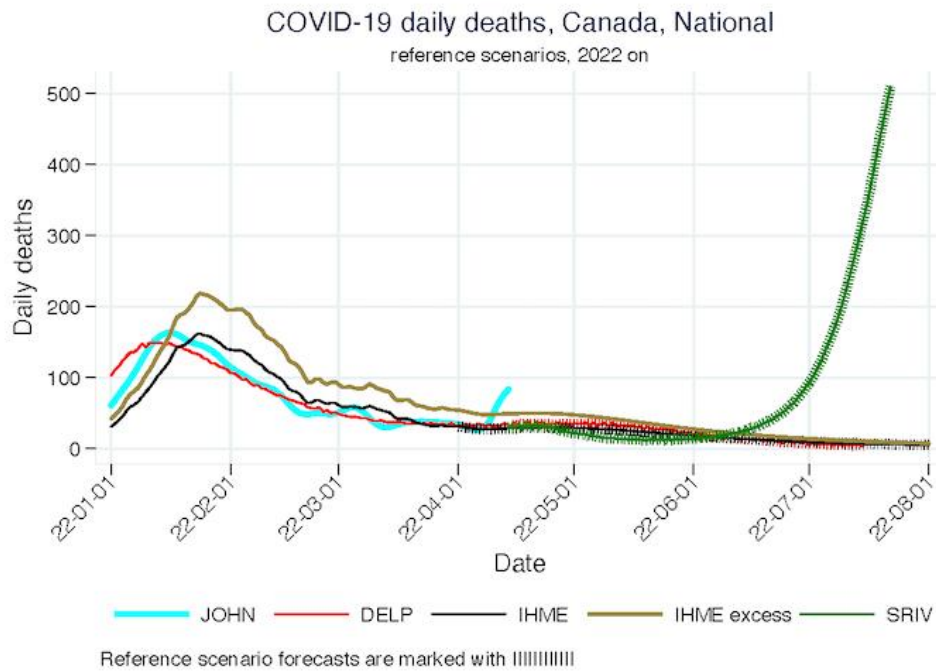
### (1) Canada [Daily deaths, Reference scenarios, 2020 on](#)



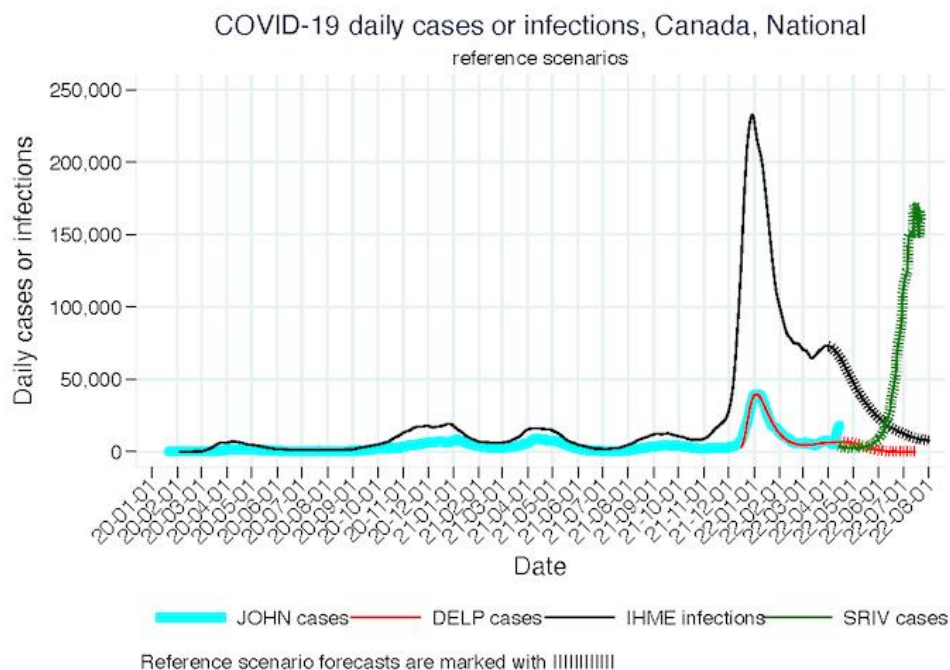
### (2) Canada National [Daily deaths, All scenarios, 2021 on](#)



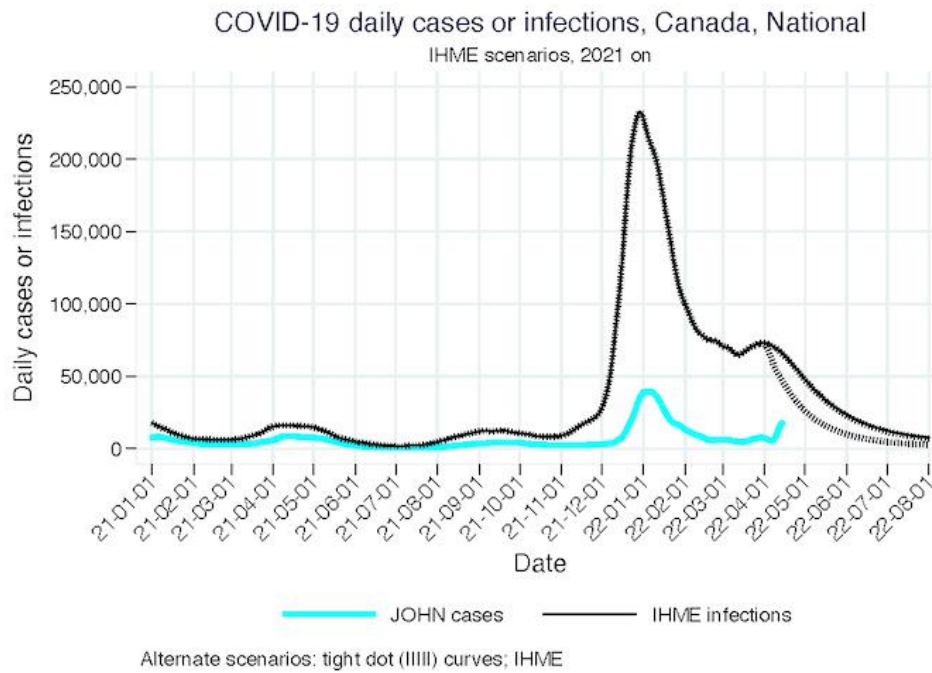
(2b) Canada National [Daily deaths, All scenarios, 2022 on](#)



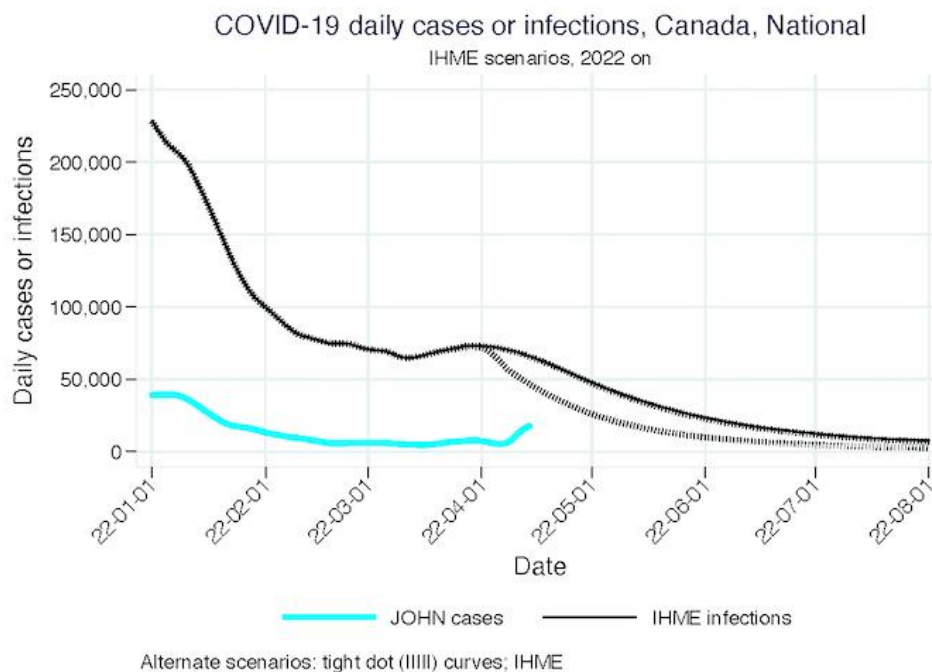
(3) Canada National [Daily cases or infections, Reference scenarios, 2020 on](#)



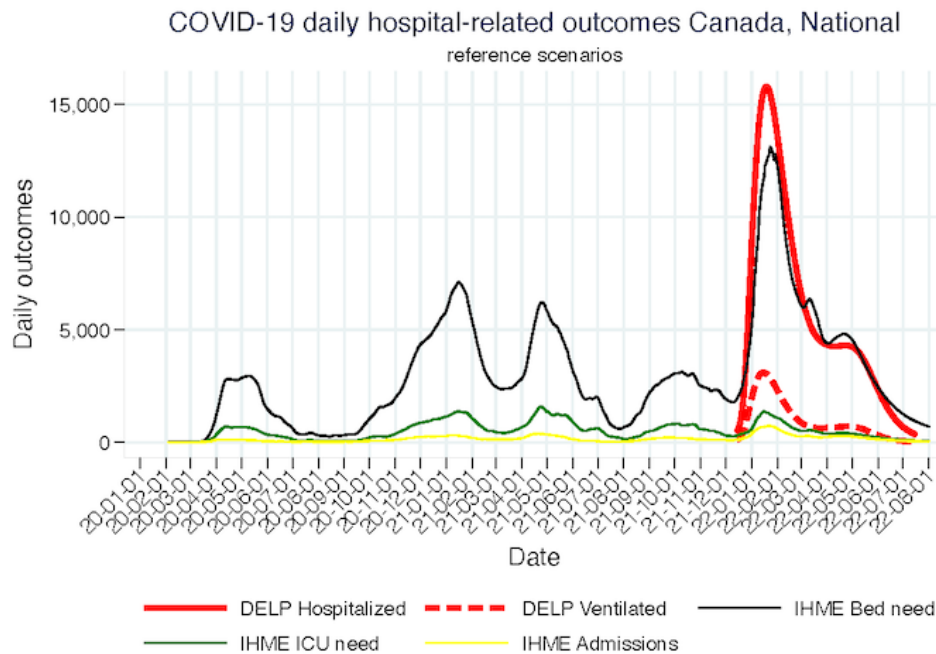
(4) Canada National [Daily cases or infections, All scenarios, 2021 on](#)



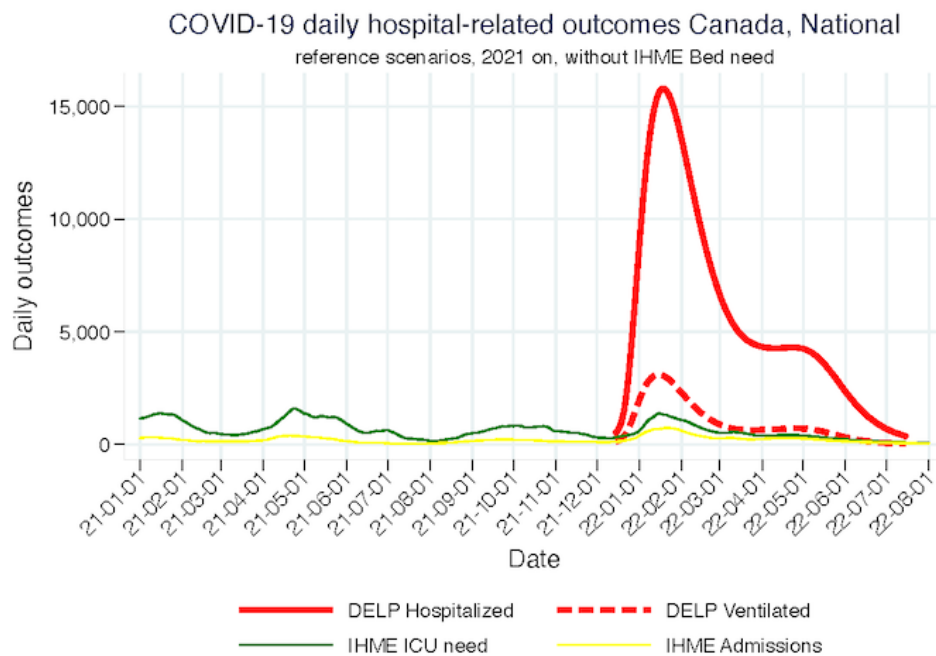
(4b) Canada National [Daily cases or infections, All scenarios, 2022 on](#)



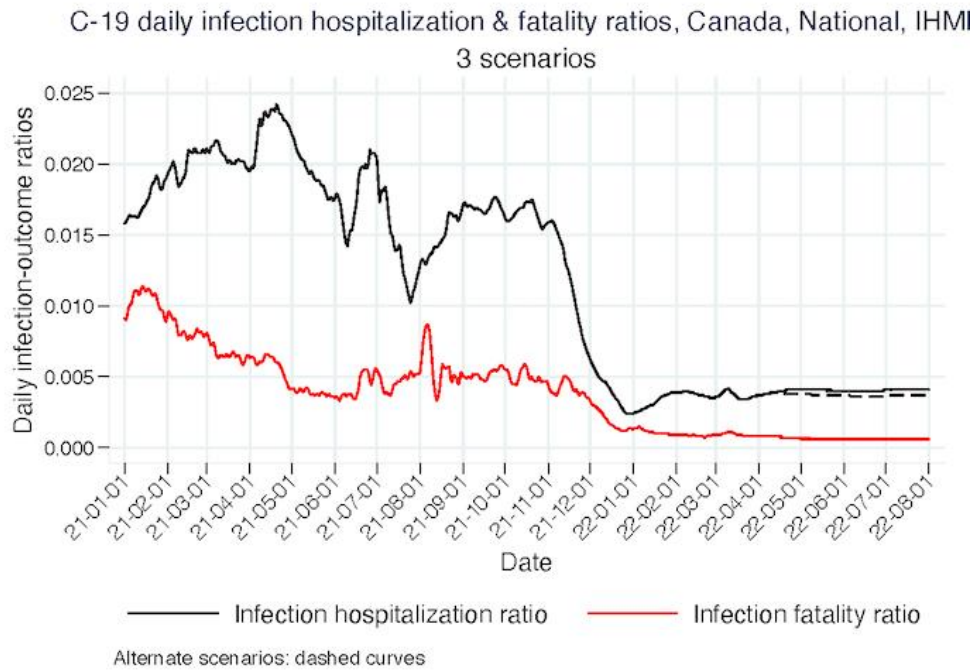
(5) Canada National [Daily hospital-related outcomes, Reference scenarios, 2020 on](#)



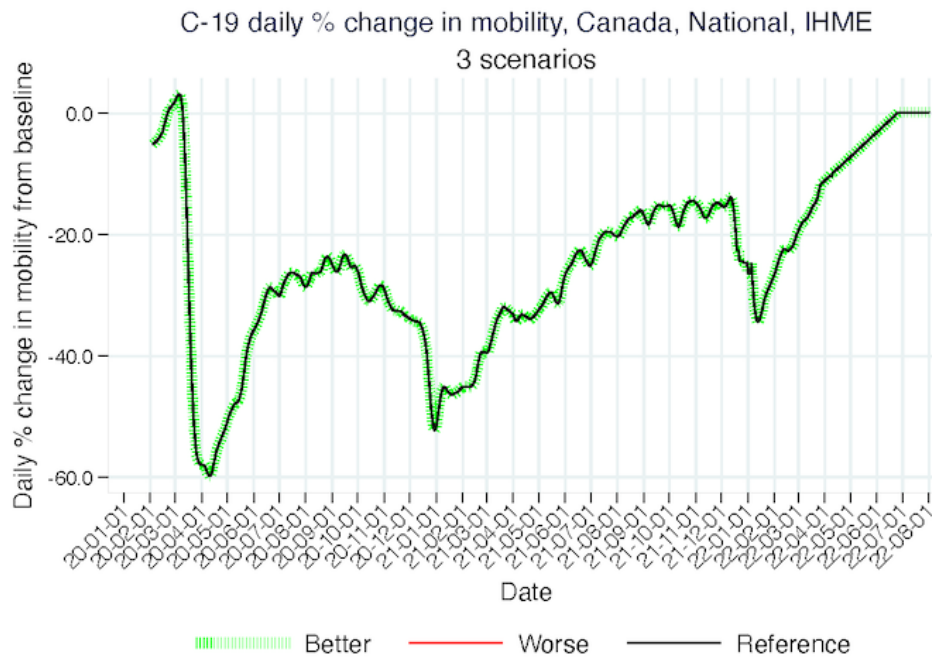
(6) Canada National [Daily hospital-related outcomes, without IHME Bed need, IMPE Hospital demand, Reference scenarios, 2021 on](#)



(7) Canada National [Daily Infection hospitalization and fatality ratios, Reference scenario, IHME, 2021 on](#)

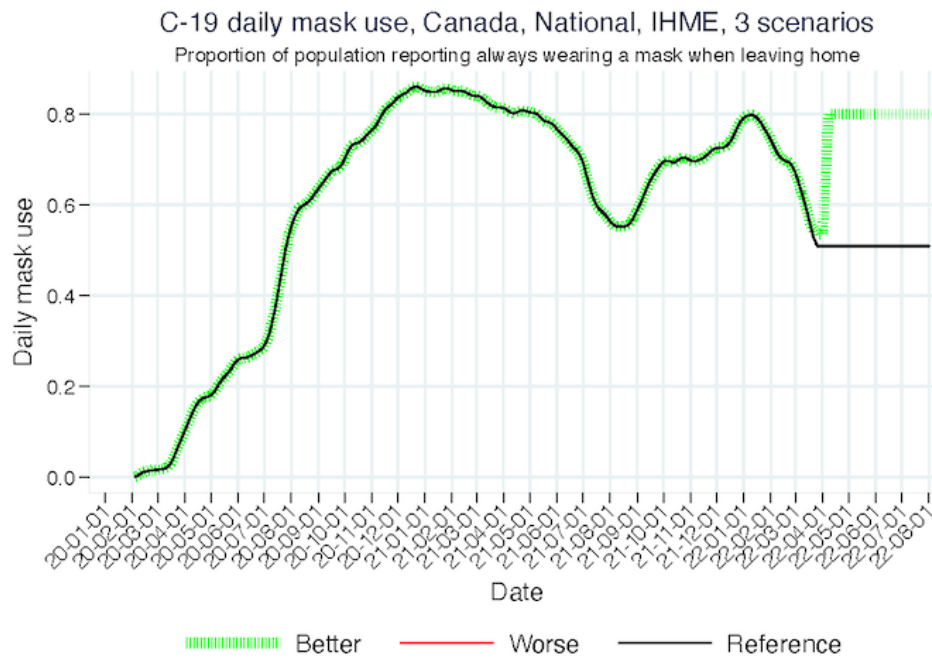


(8) Canada National [Daily percent change in mobility, IHME, 2020 on](#)

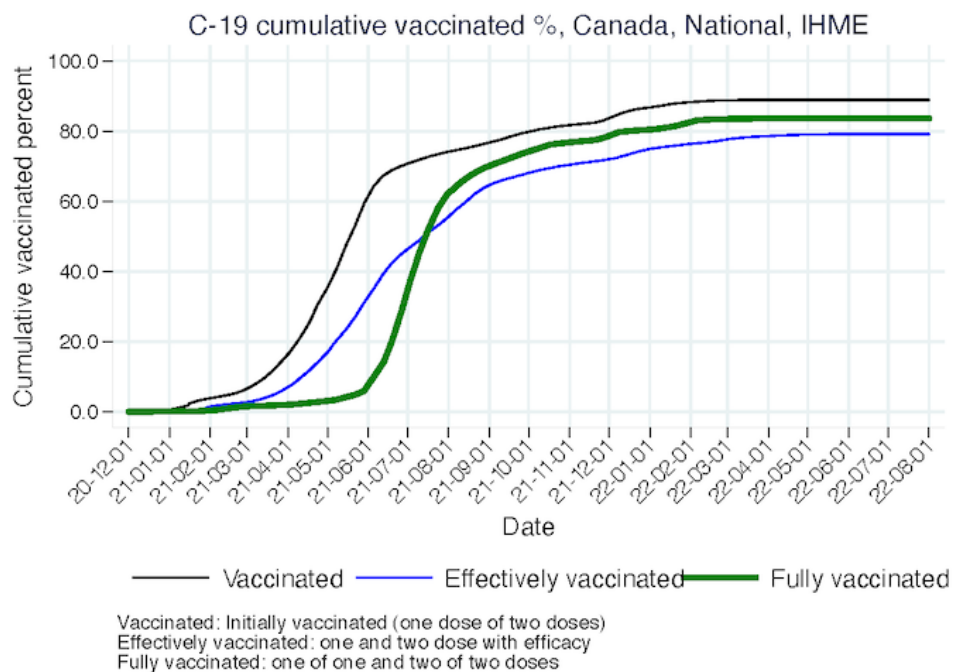




(9) Canada National [Daily mask use, IHME, 2020 on](#)



(10) Canada National [Percent cumulative vaccinated, IHME, 2020 on](#)





## Selected graphs - Canada, Provinces together

---

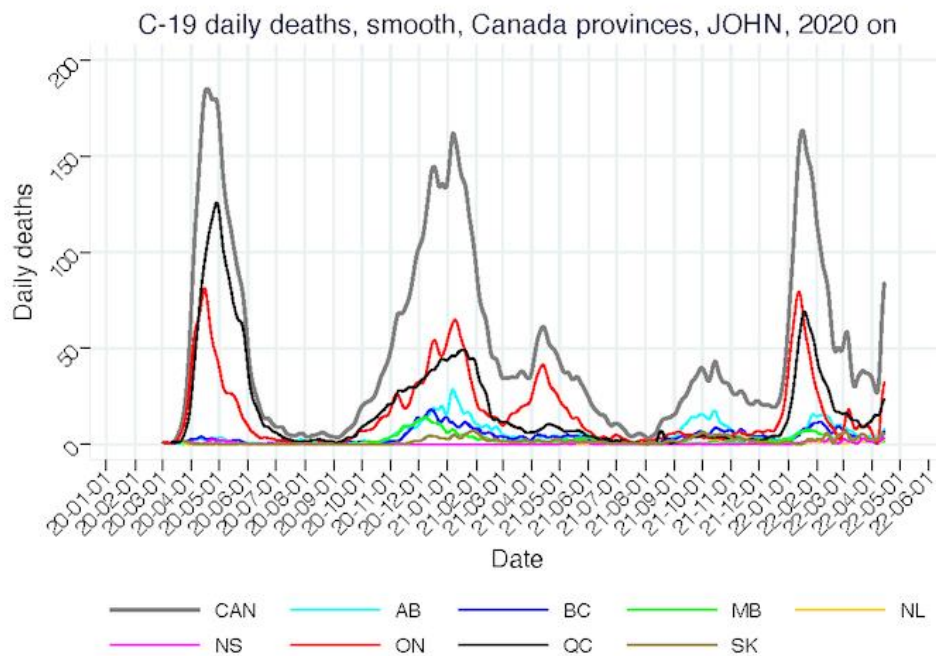
(a) Official reports to WHO, via JOHN || (b) Models: IHME

---

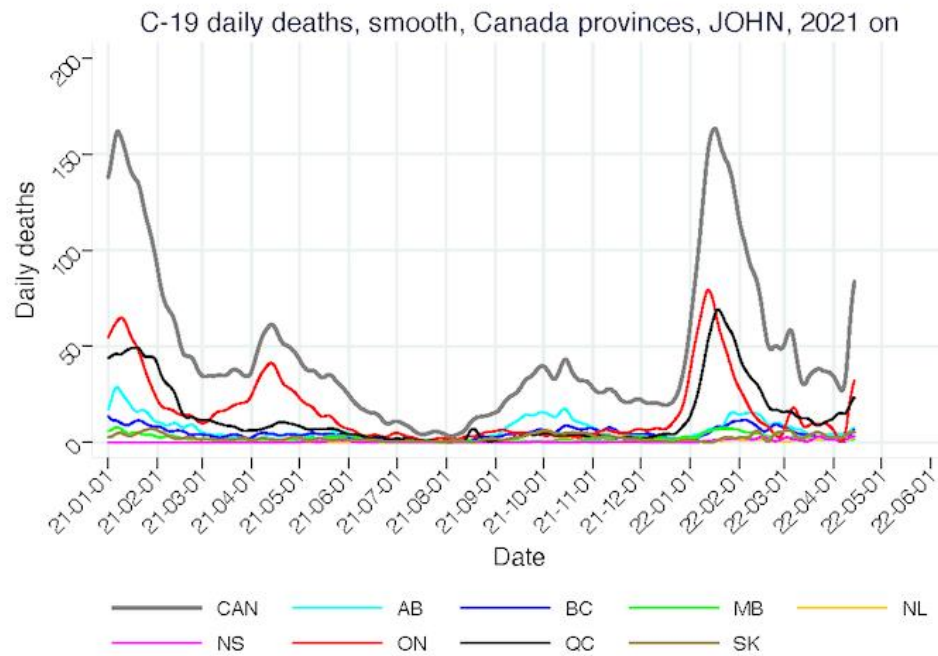
(a) Official reports to WHO, via JOHN

---

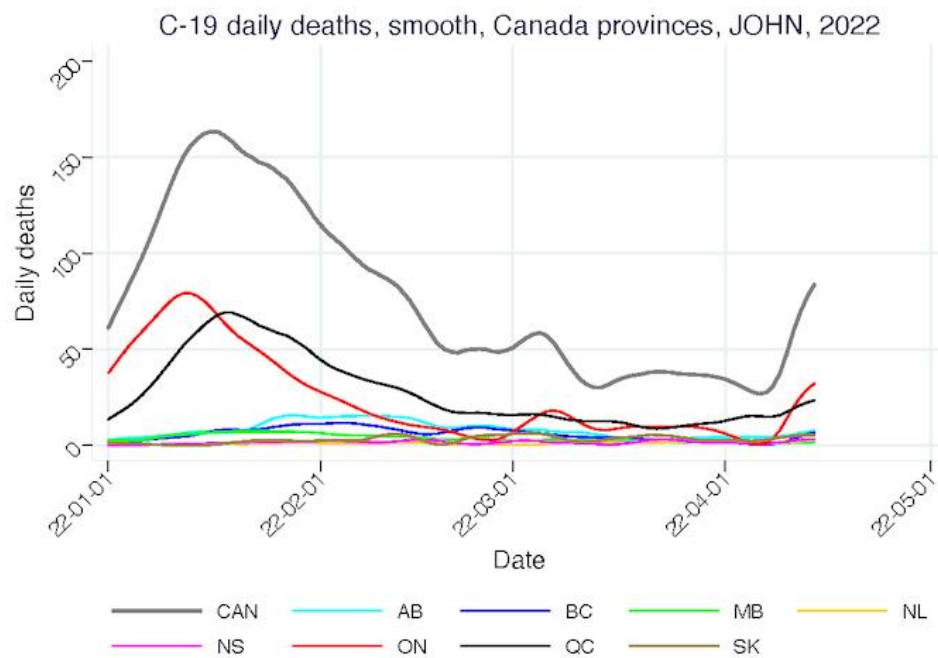
(1) Canada Provinces [Daily reported deaths, JOHN, 2020 on](#)



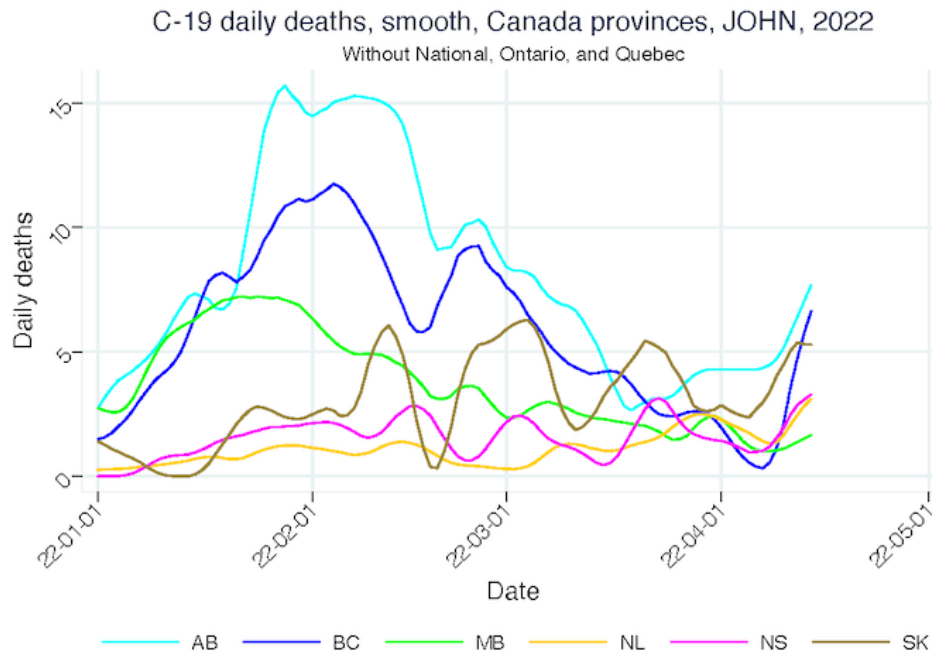
(2) Canada Provinces [Daily reported deaths, JOHN, 2021 on](#)



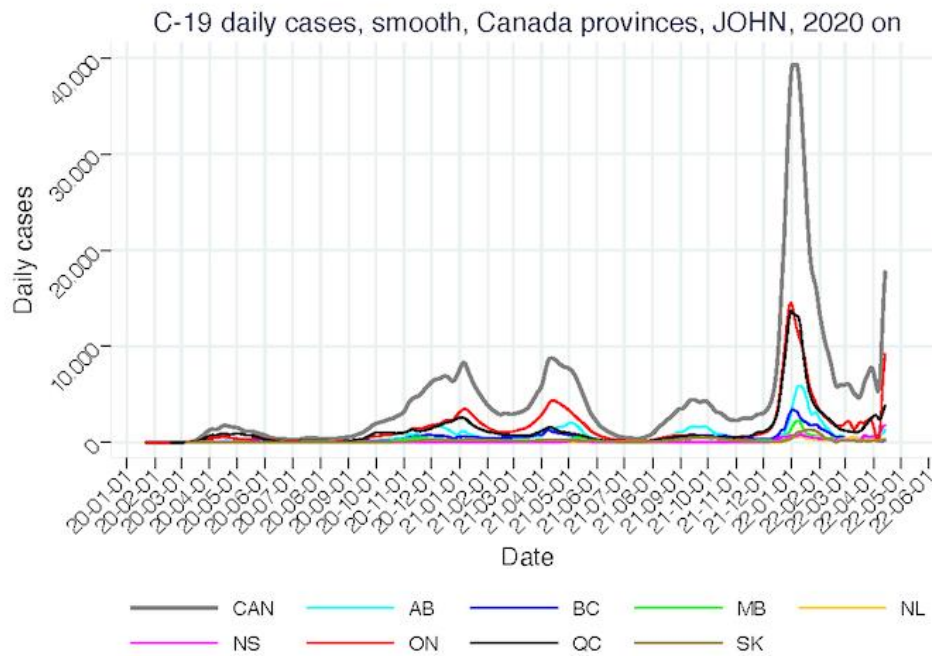
(3) Canada Provinces [Daily reported deaths, JOHN, 2022](#)



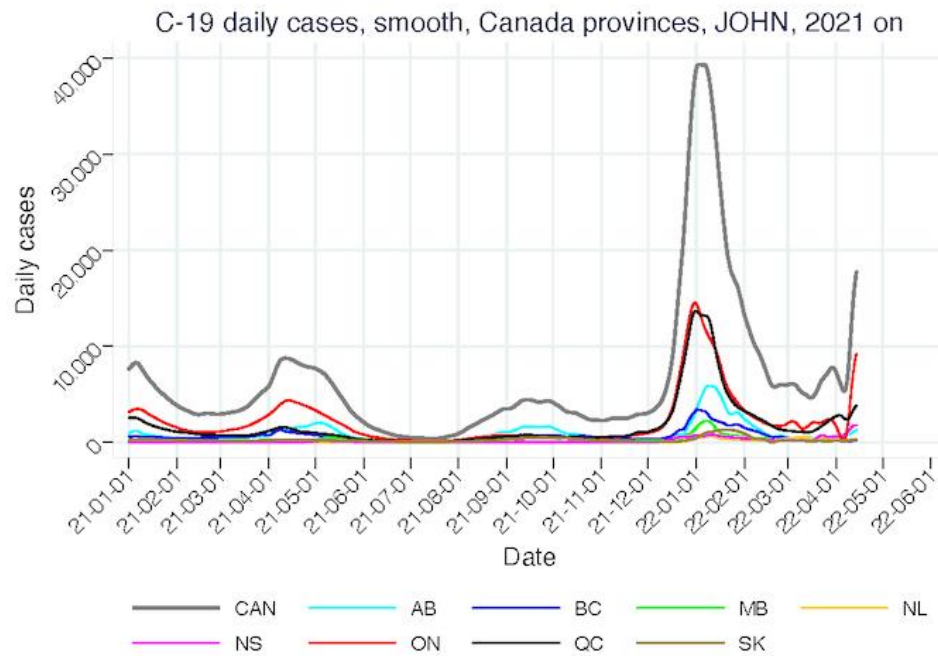
(4) Canada Provinces [Daily reported deaths, without National, Ontario, and Quebec, JOHN, 2022](#)



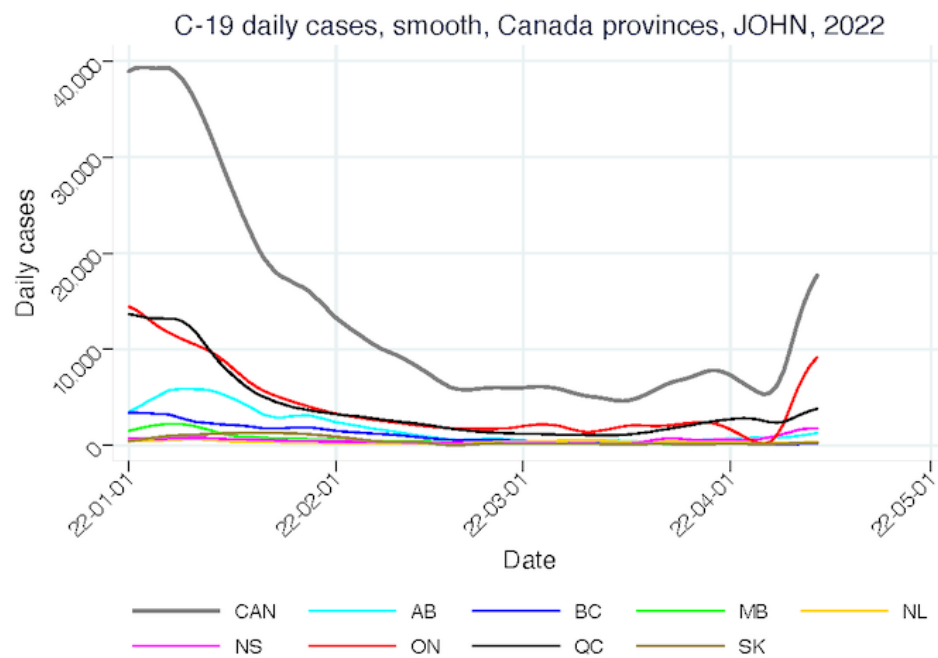
(5) Canada Provinces [Daily reported cases, JOHN, 2020 on](#)



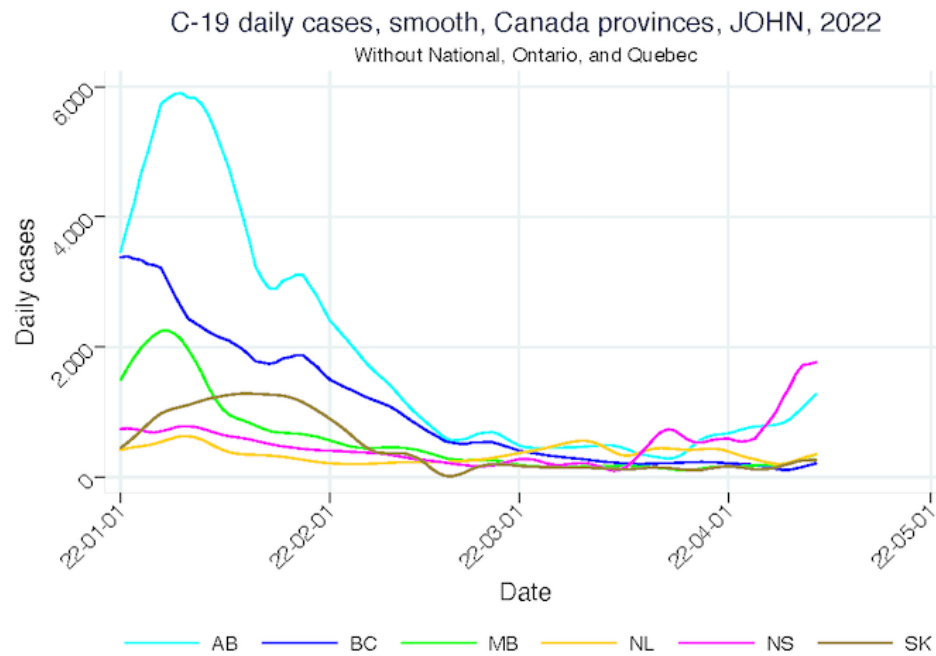
(6) Canada Provinces [Daily reported cases, JOHN, 2021 on](#)



(7) Canada Provinces [Daily reported cases, JOHN, 2022](#)

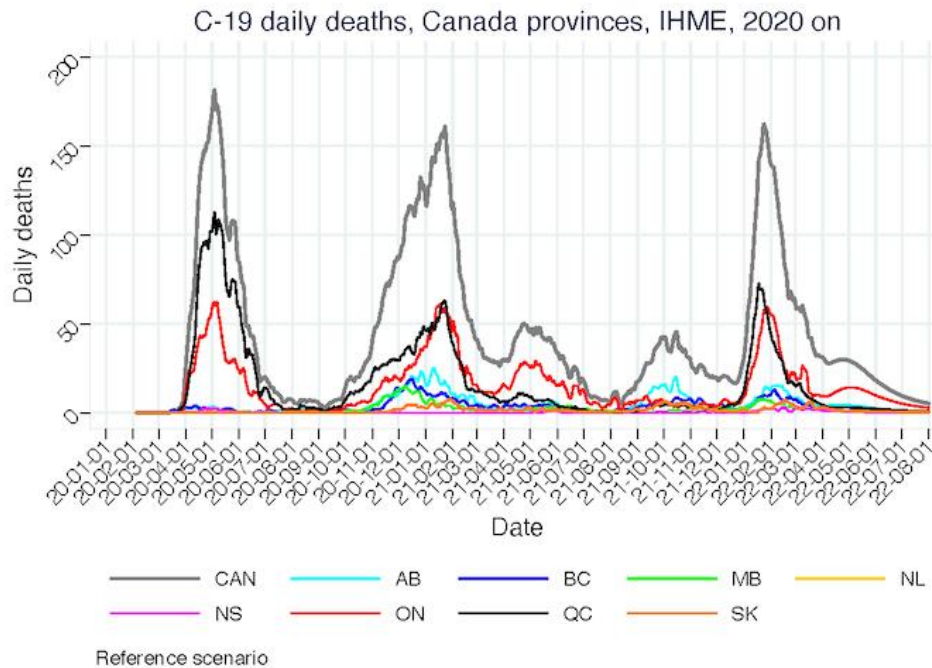


(8) Canada Provinces [Daily reported cases, without National, Ontario, and Quebec, JOHN, 2022](#)

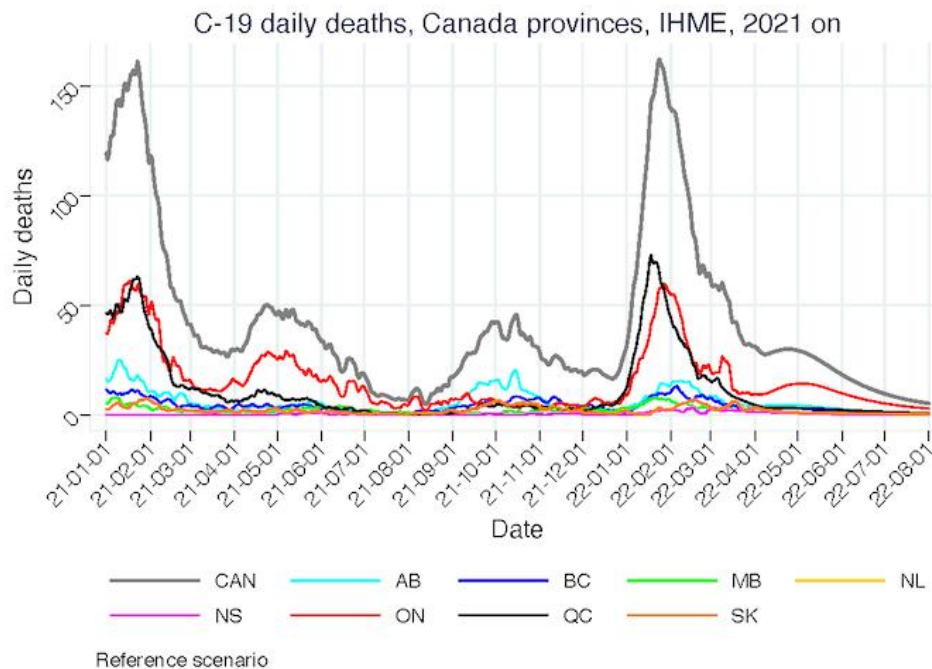


(b) Models: IHME

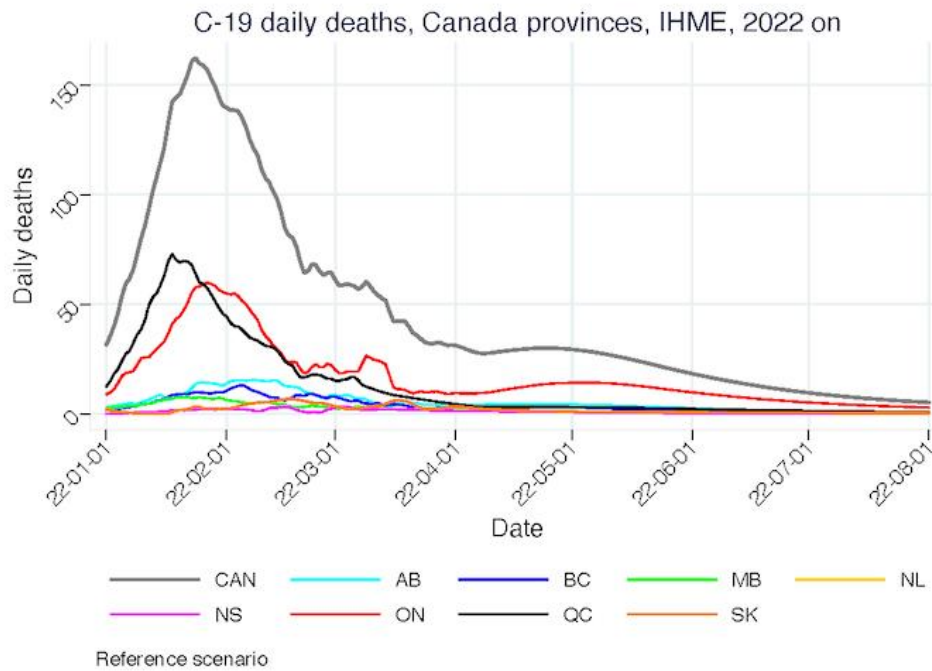
(9) Canada Provinces [Daily deaths, Reference scenario, IHME, 2020 on](#)



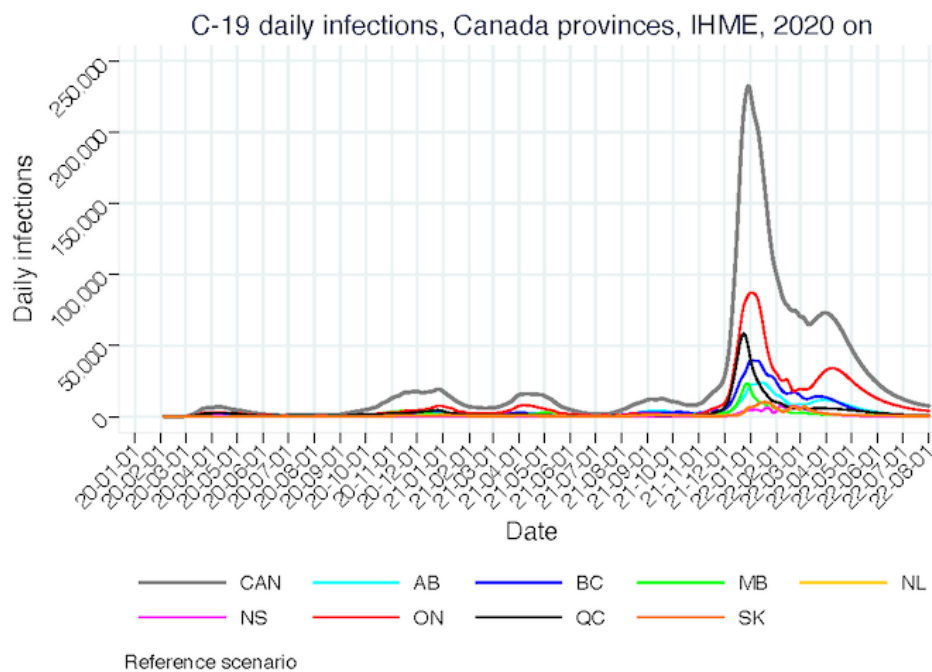
(10) Canada Provinces [Daily deaths, Reference scenario, IHME, 2021 on](#)



(11) Canada Provinces [Daily deaths, Reference scenario, IHME, 2022](#)

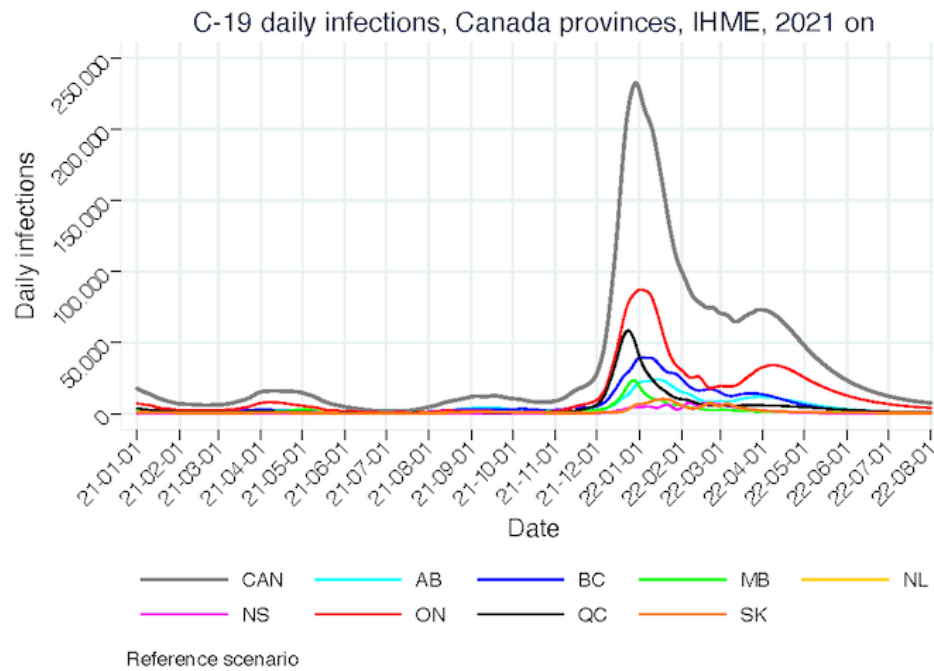


(12) Canada Provinces [Daily infections, Reference scenario, IHME, 2020 on](#)

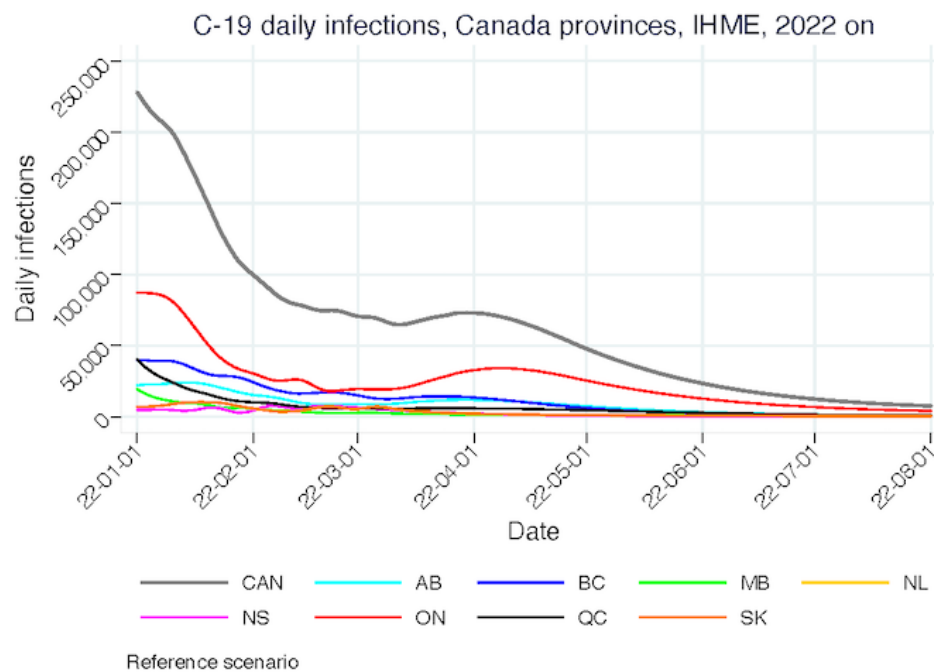




(13) Canada Provinces [Daily infections, Reference scenario, IHME, 2021 on](#)

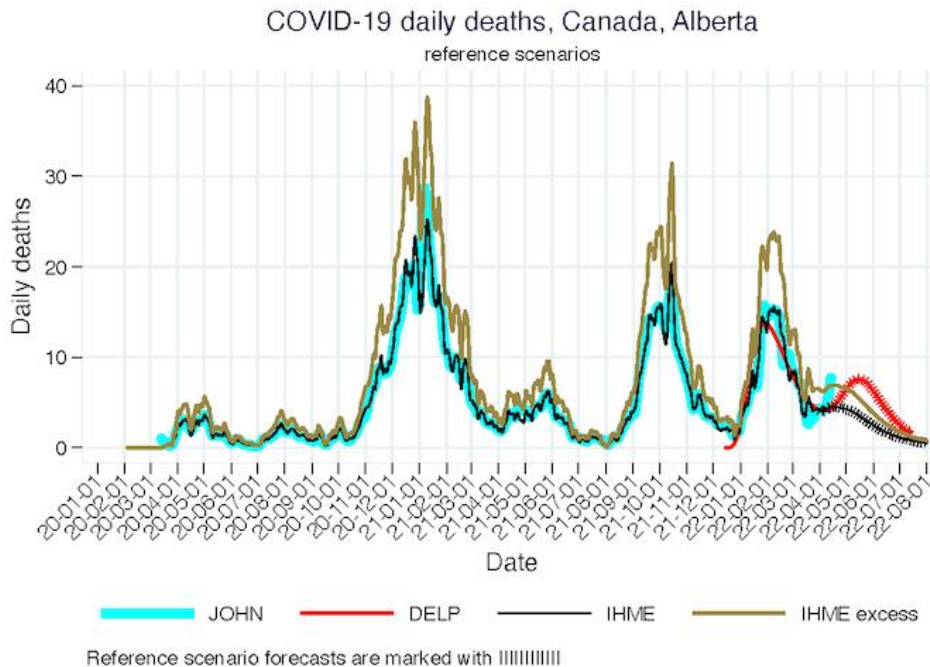


(14) Canada Provinces [Daily infections, Reference scenario, IHME, 2022](#)

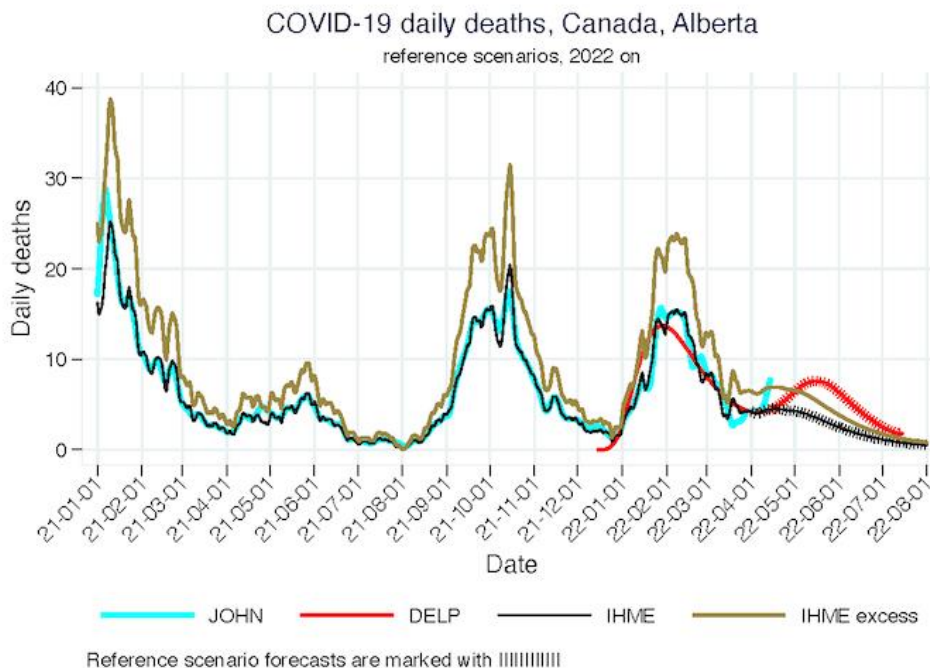


## Selected graphs - Alberta

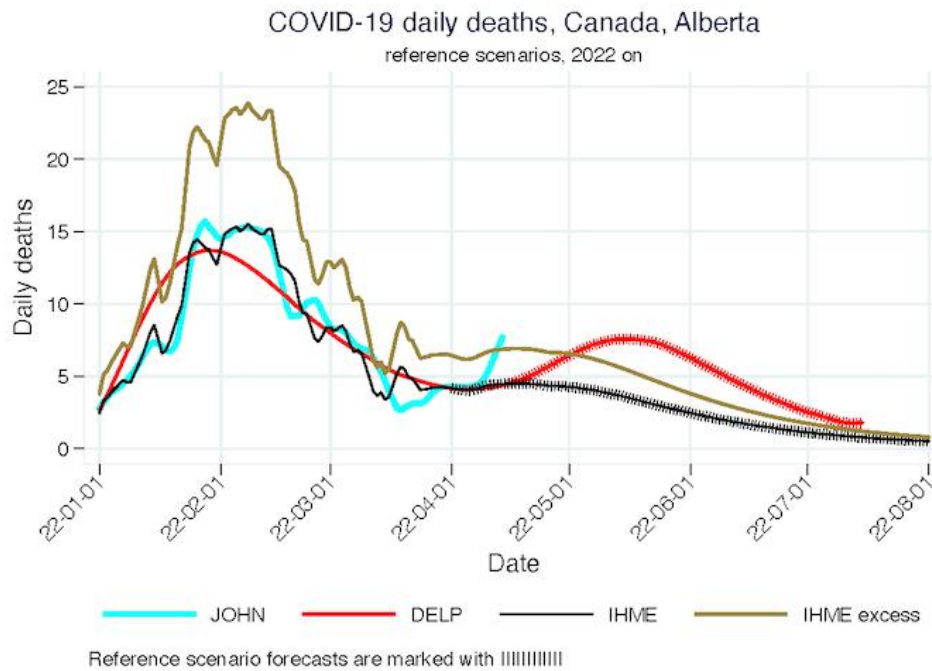
### (1) Alberta [Daily deaths, Reference scenario, 2020 on](#)



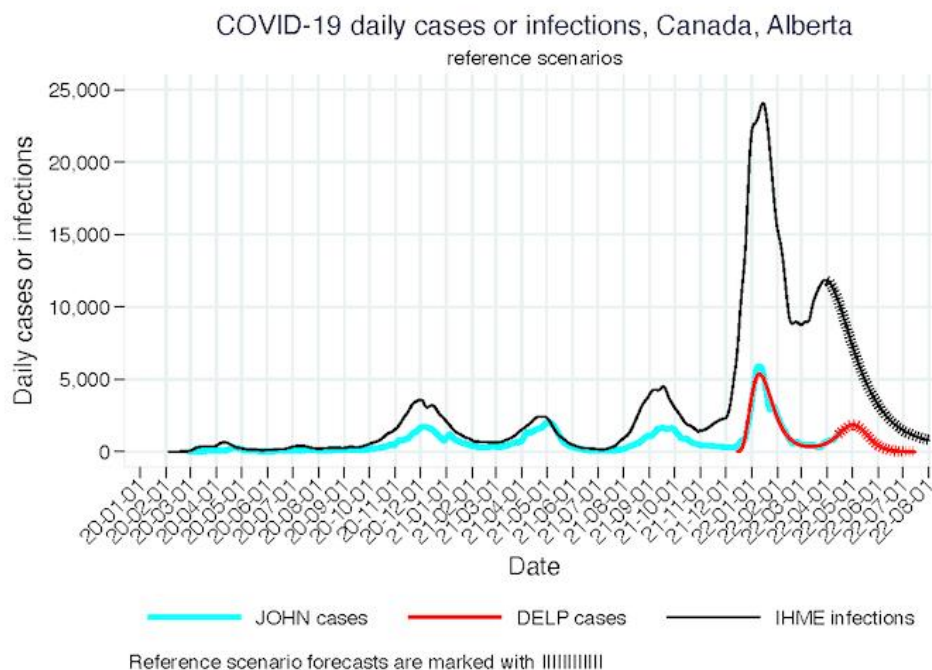
### (2) Alberta [Daily deaths, Reference scenario, 2021 on](#)



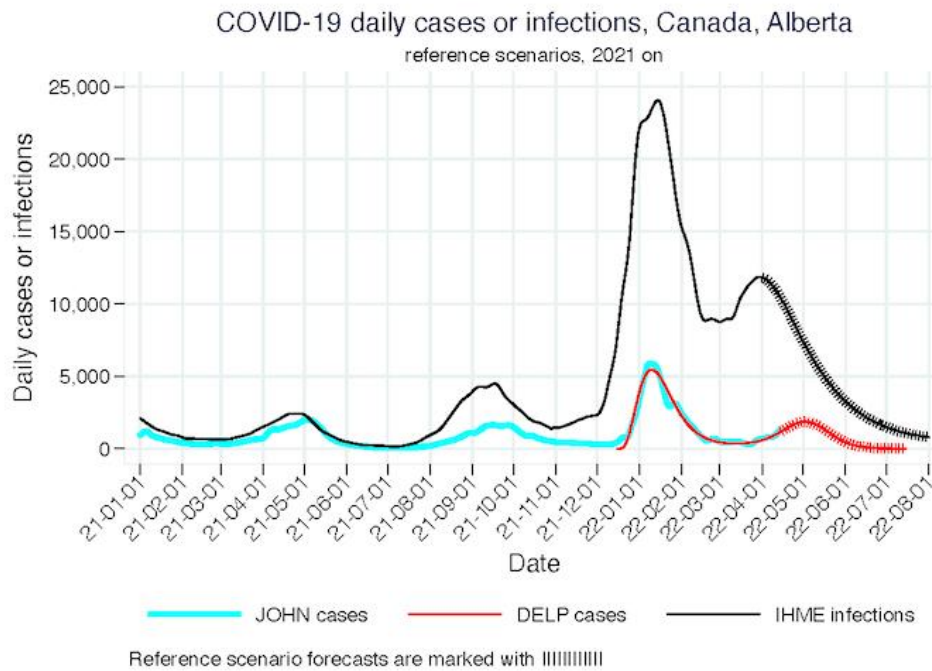
(2b) Alberta [Daily deaths, Reference scenario, 2022 on](#)



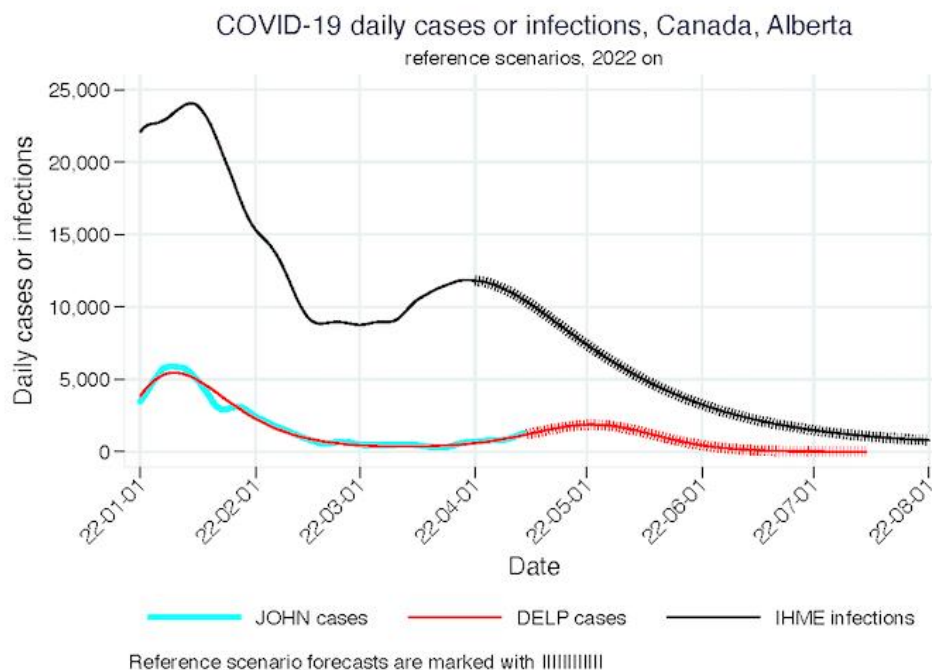
(3) Alberta [Daily cases or infections, Reference scenario, 2020 on](#)



(4) Alberta [Daily cases or infections, Reference scenario, 2021 on](#)

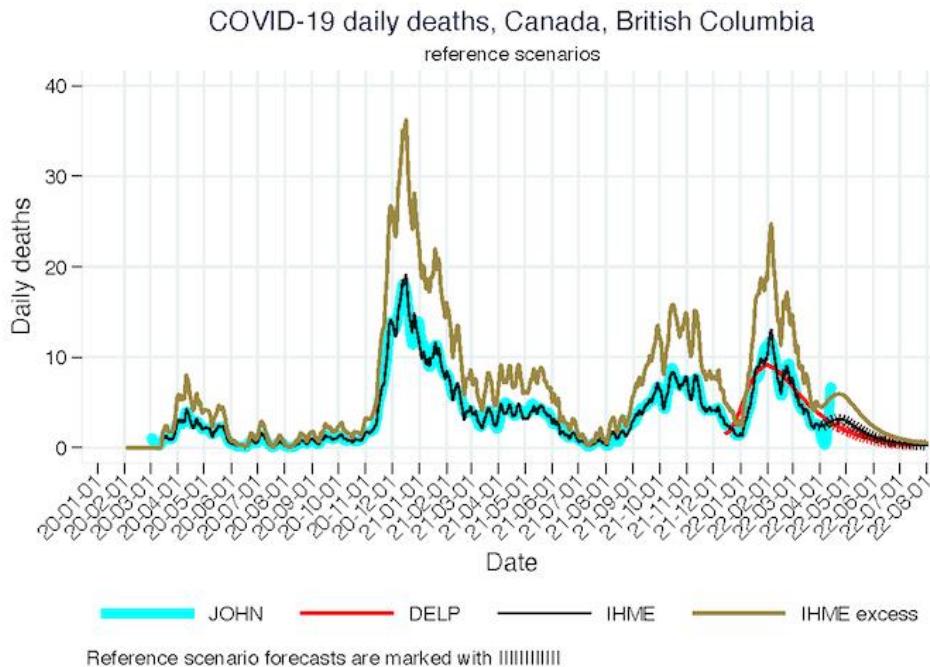


(4b) Alberta [Daily cases or infections, Reference scenario, 2022 on](#)

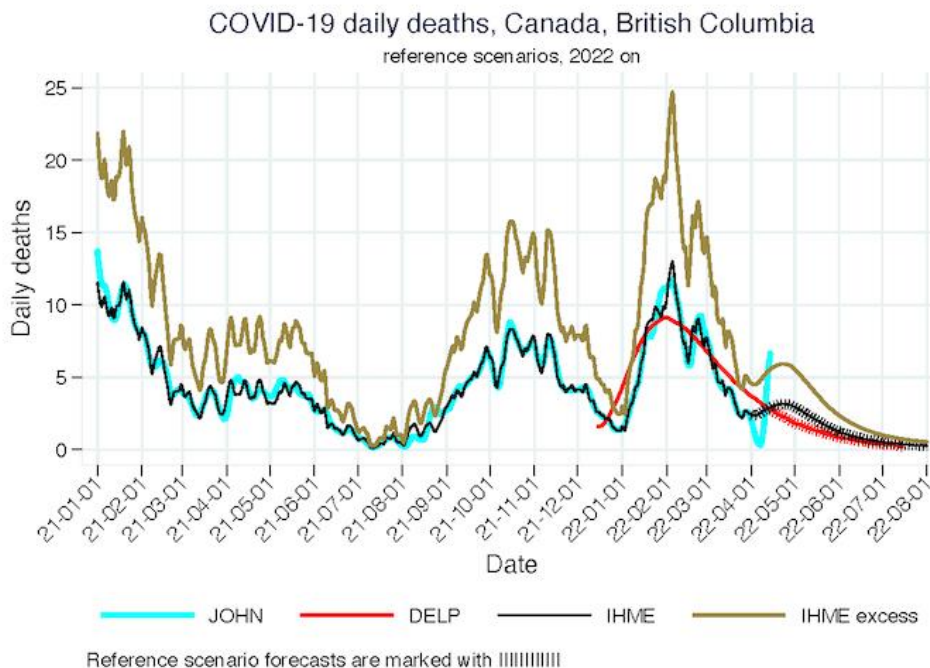


## Selected graphs - British Columbia

### (1) British Columbia [Daily deaths, Reference scenario, 2020 on](#)

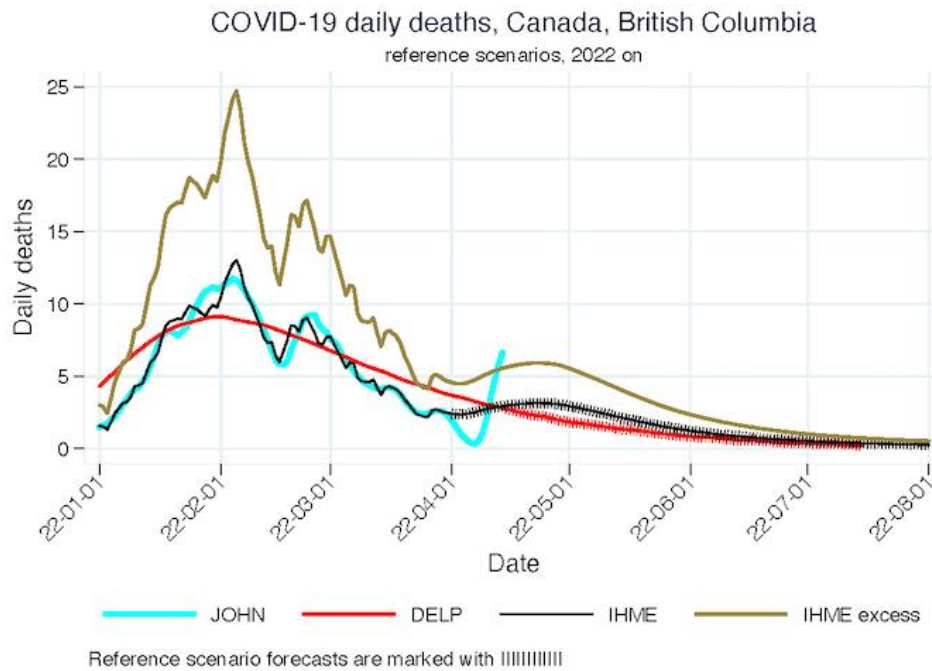


### (2) British Columbia [Daily deaths, Reference scenario, 2021 on](#)

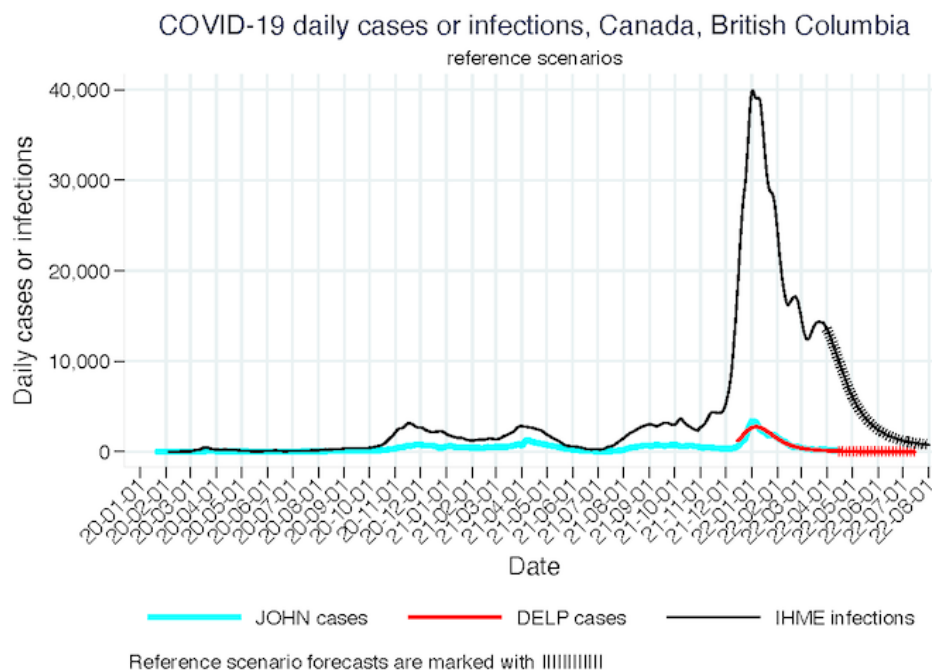




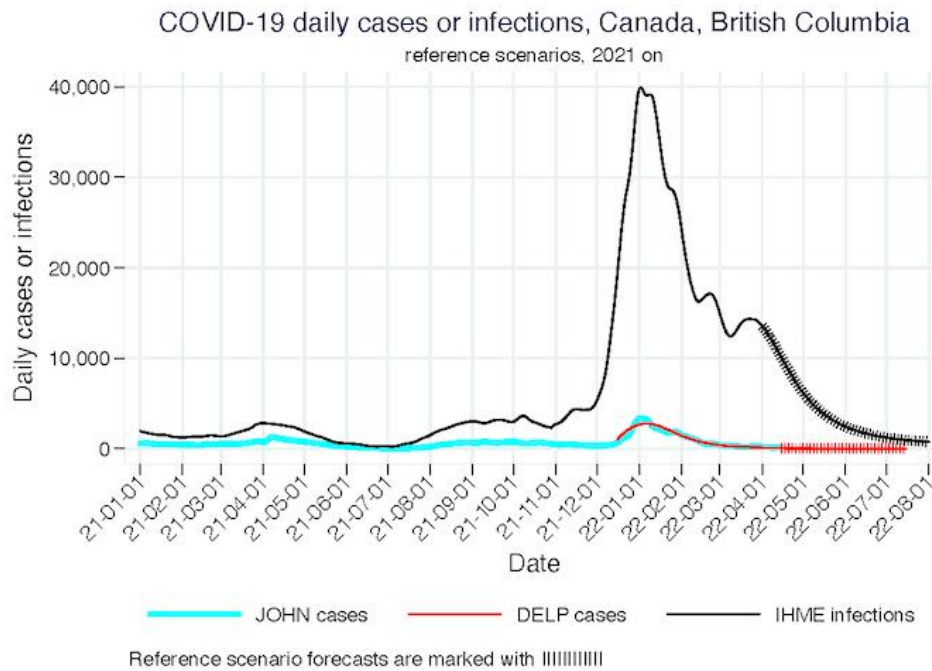
(2b) British Columbia [Daily deaths, Reference scenario, 2022 on](#)



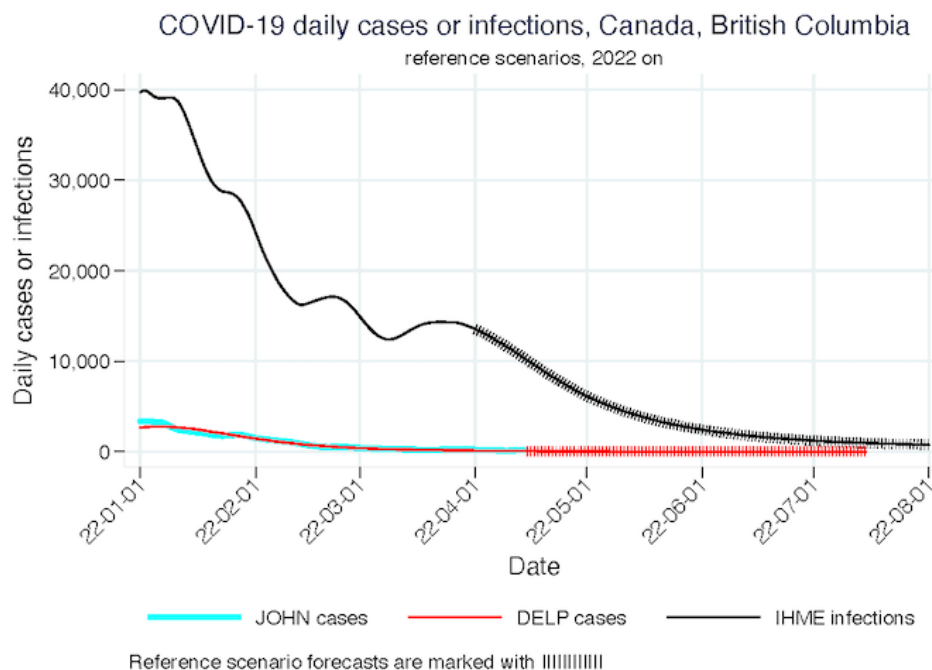
(3) British Columbia [Daily cases or infections, Reference scenario, 2020 on](#)



(4) British Columbia [Daily cases or infections, Reference scenario, 2021 on](#)



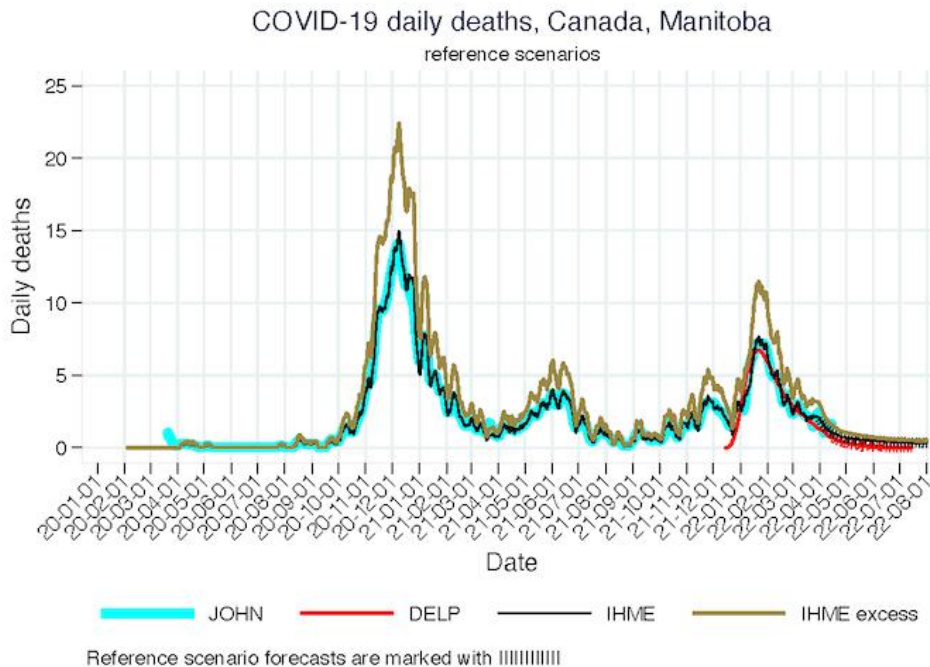
(4b) British Columbia [Daily cases or infections, Reference scenario, 2022 on](#)



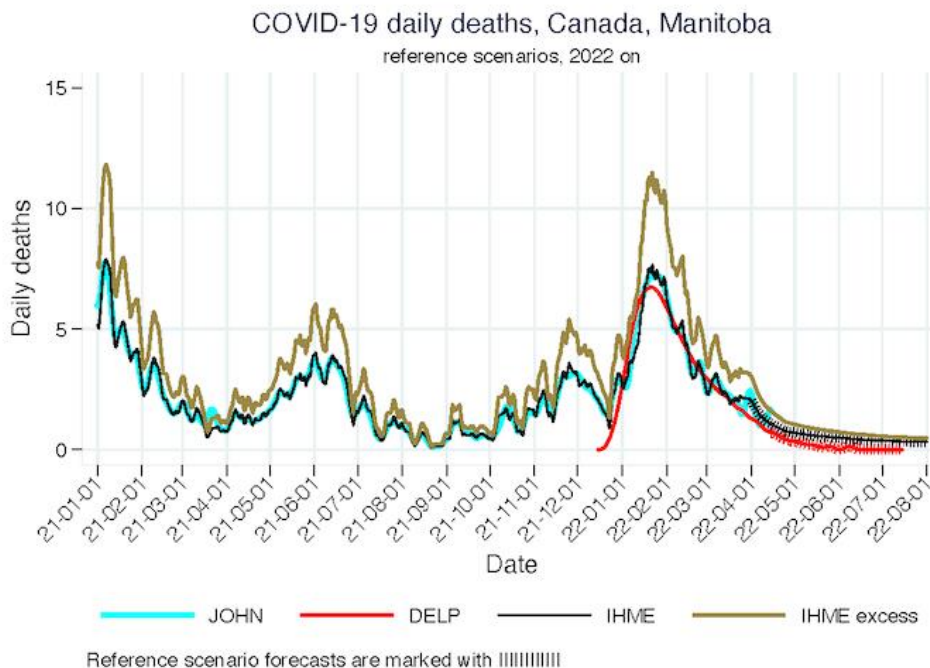


## Selected graphs - Manitoba

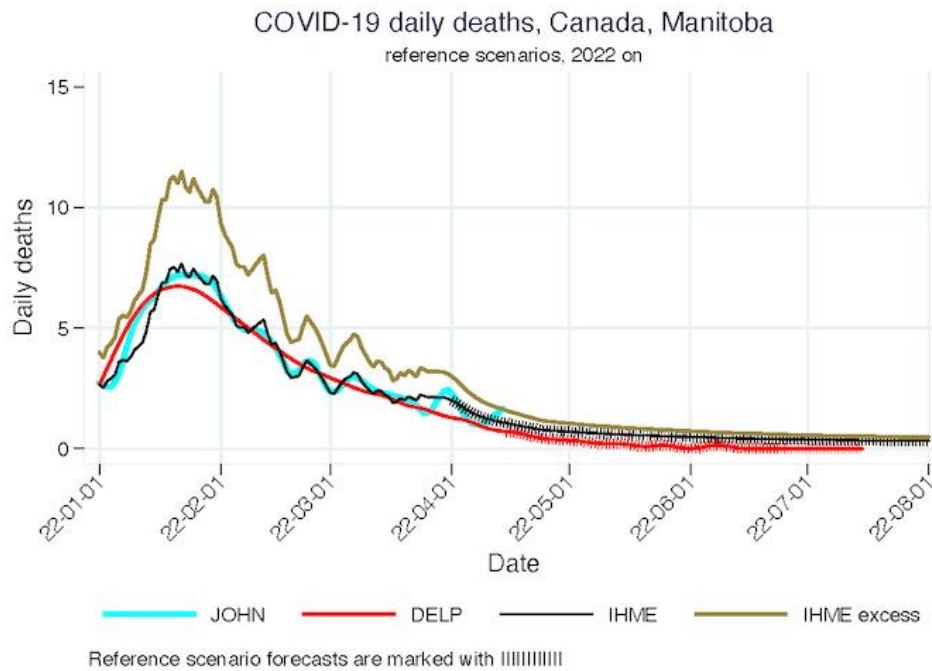
### (1) Manitoba [Daily deaths, Reference scenario, 2020 on](#)



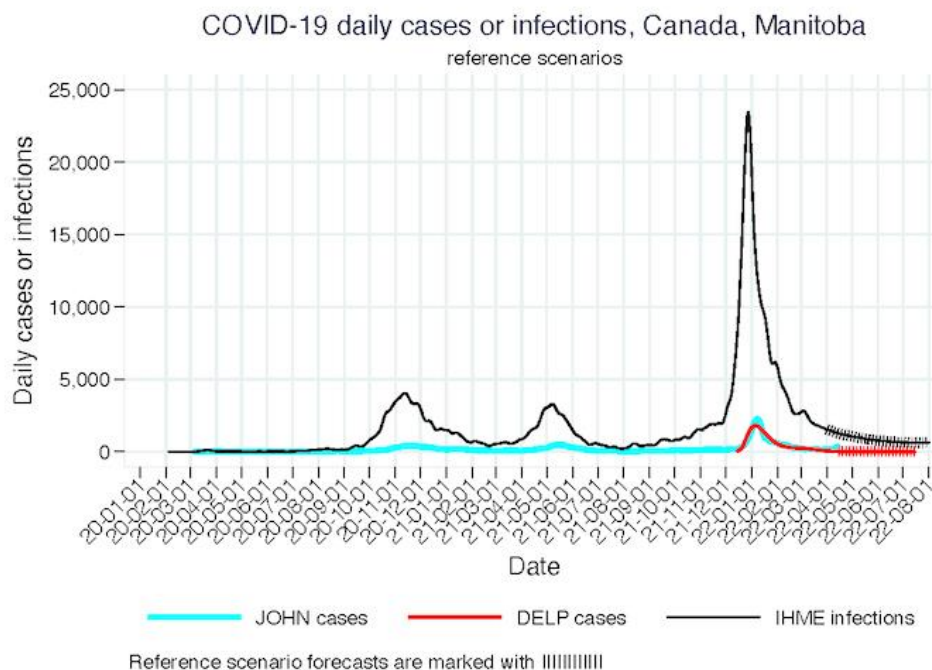
### (2) Manitoba [Daily deaths, Reference scenario, 2021 on](#)



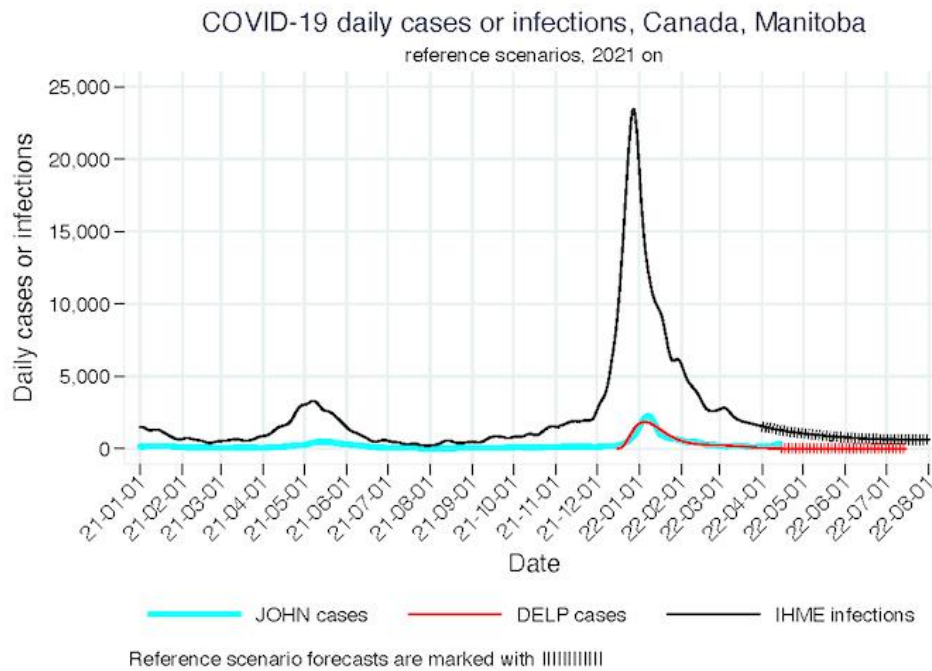
(2b) Manitoba [Daily deaths, Reference scenario, 2022 on](#)



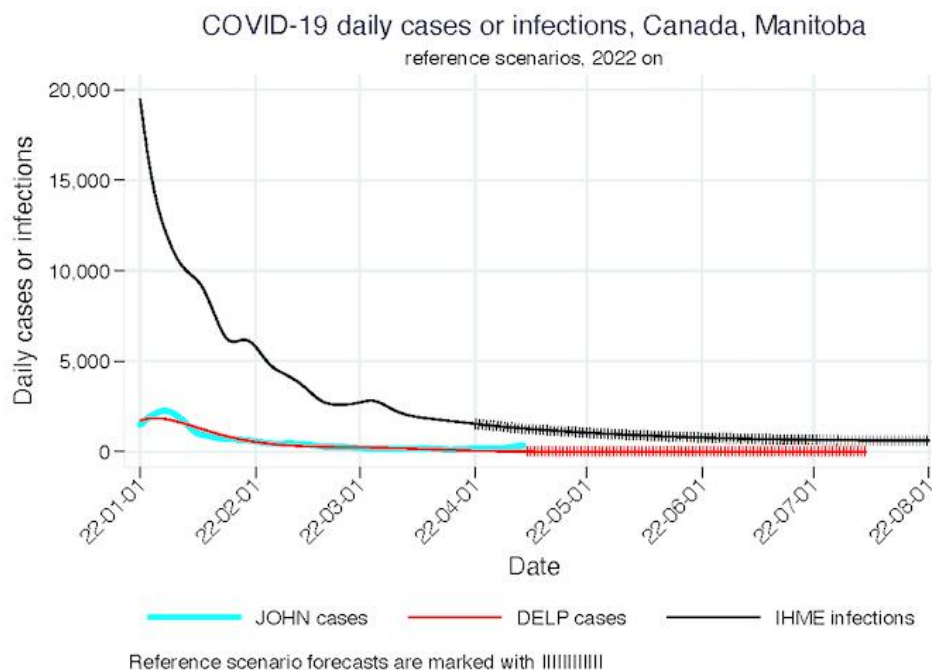
(3) Manitoba [Daily cases or infections, Reference scenario, 2020 on](#)



(4) Manitoba [Daily cases or infections, Reference scenario, 2021 on](#)

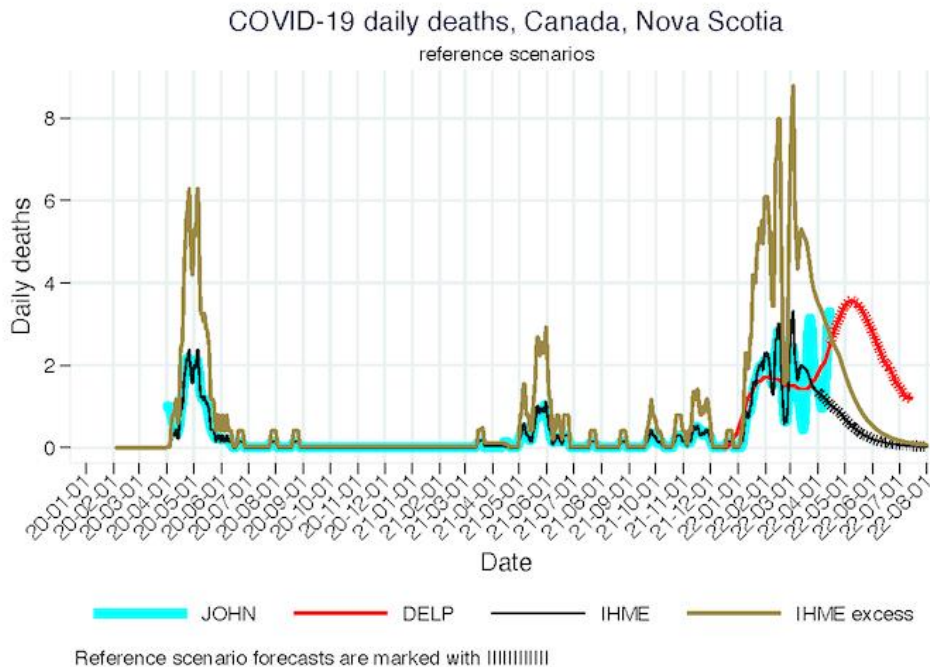


(4b) Manitoba [Daily cases or infections, Reference scenario, 2022 on](#)

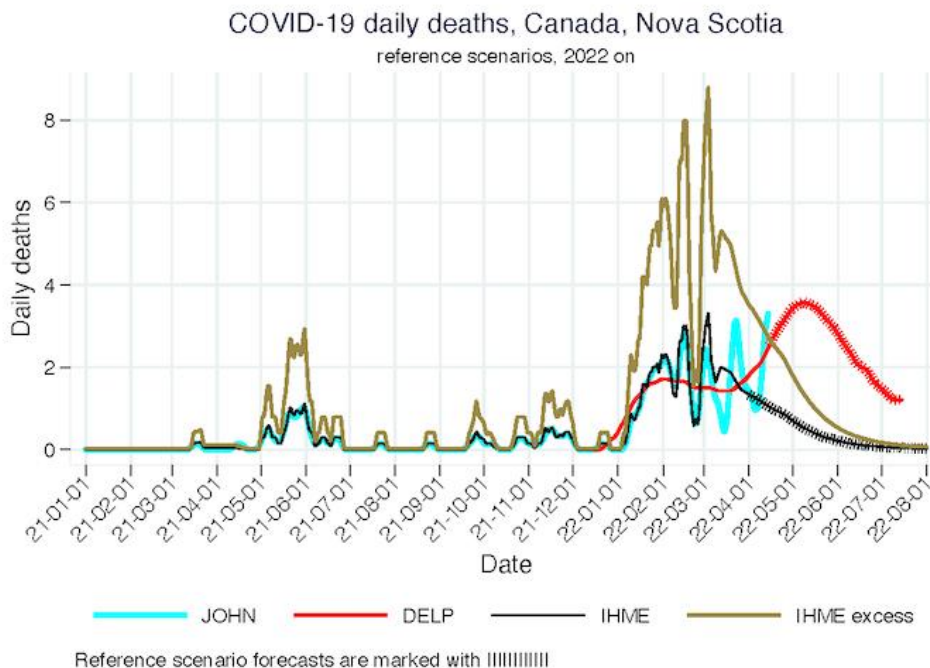


## Selected graphs - Nova Scotia

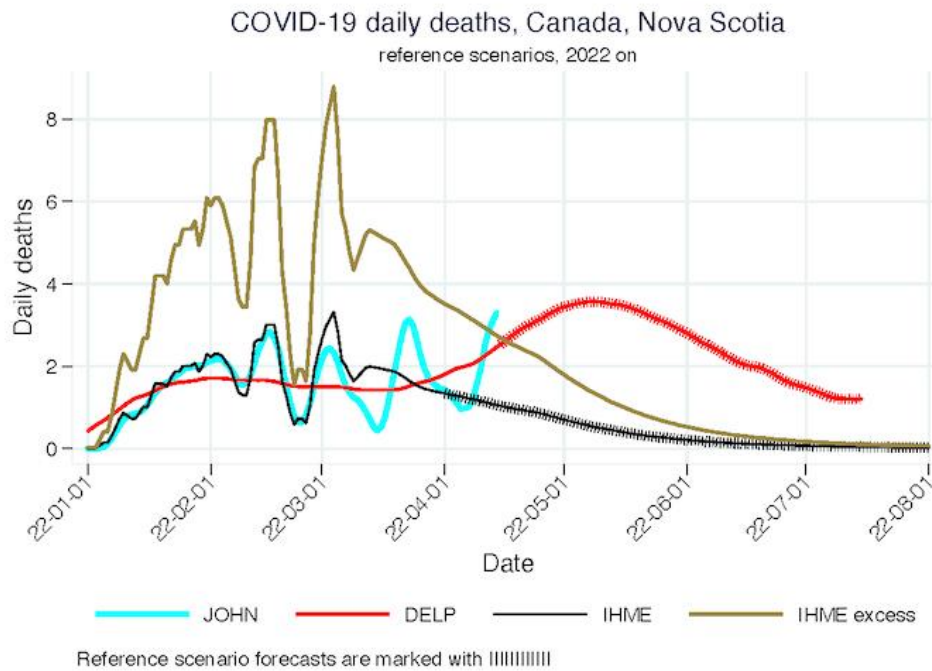
### (1) Nova Scotia [Daily deaths, Reference scenario, 2020 on](#)



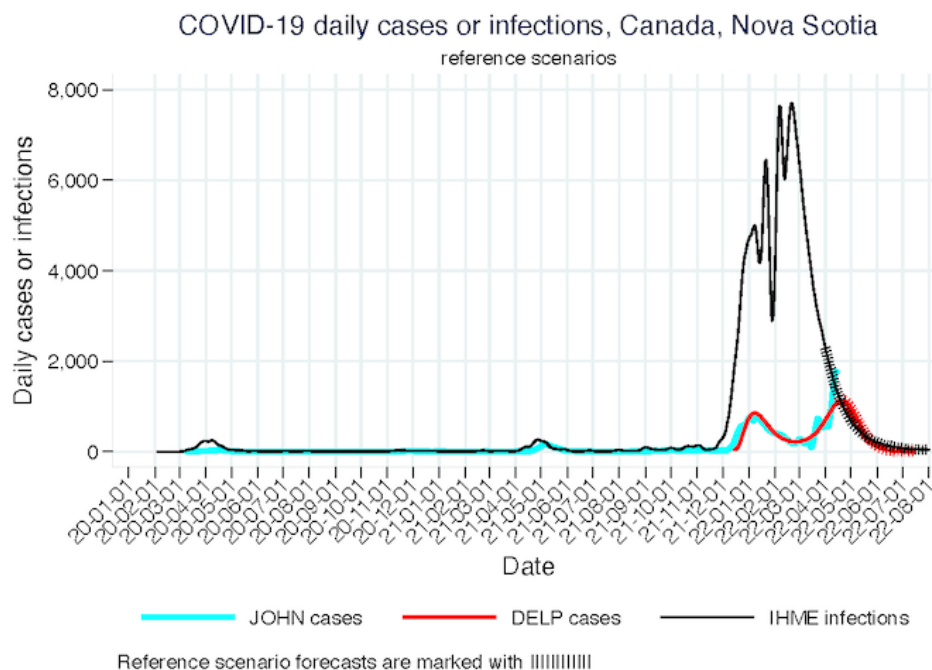
### (2) Nova Scotia [Daily deaths, Reference scenario, 2021 on](#)



(2b) Nova Scotia [Daily deaths, Reference scenario, 2022 on](#)

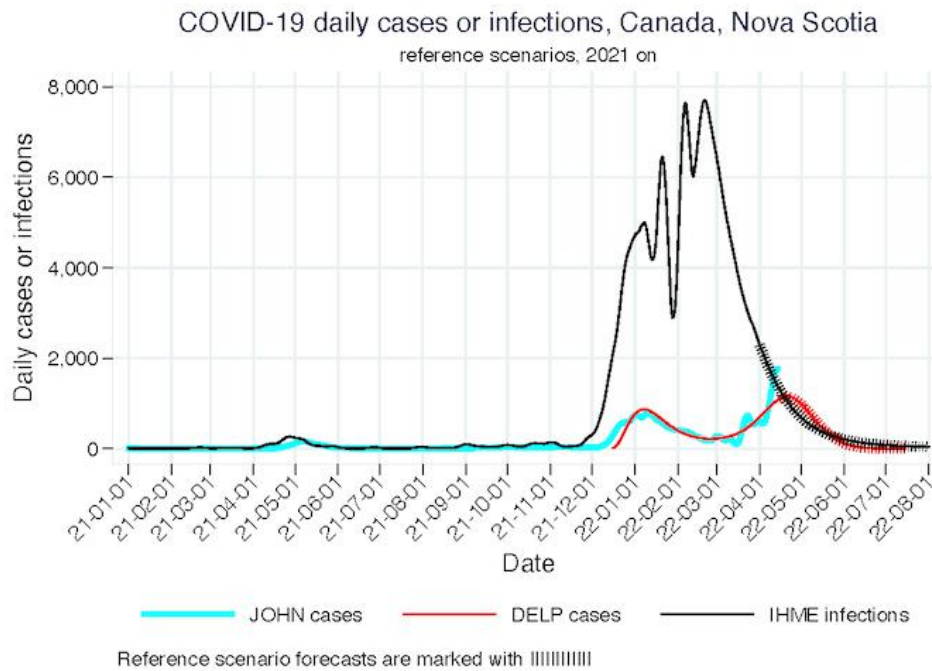


(3) Nova Scotia [Daily cases or infections, Reference scenario, 2020 on](#)

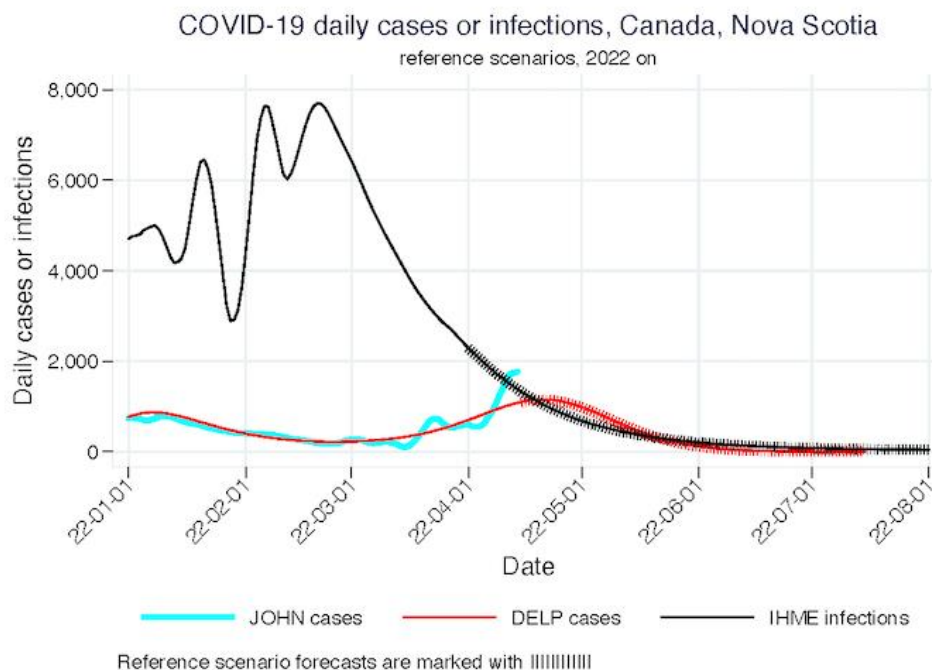




(4) Nova Scotia [Daily cases or infections, Reference scenario, 2021 on](#)

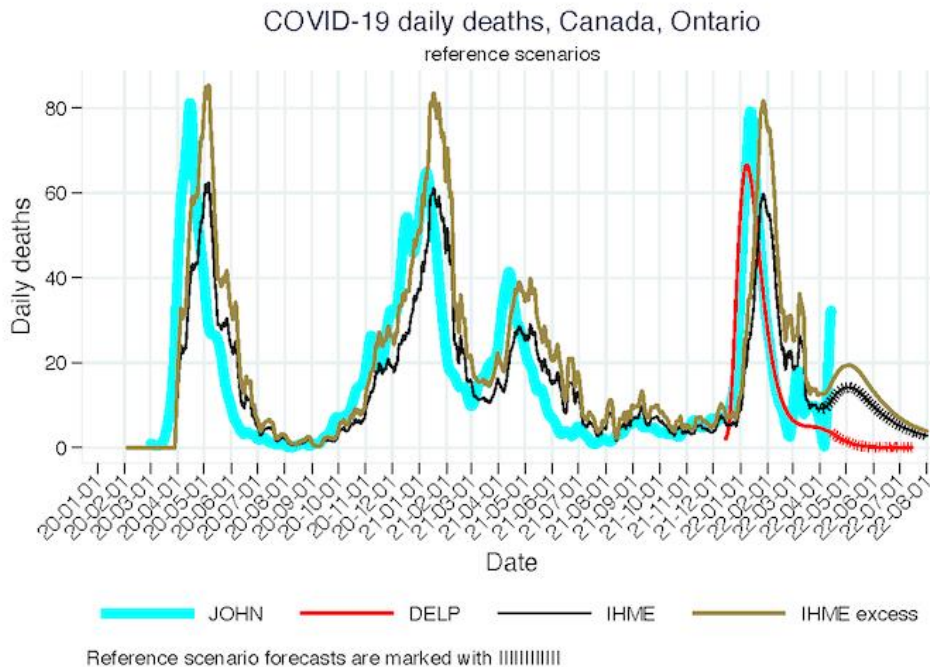


(4b) Nova Scotia [Daily cases or infections, Reference scenario, 2022 on](#)

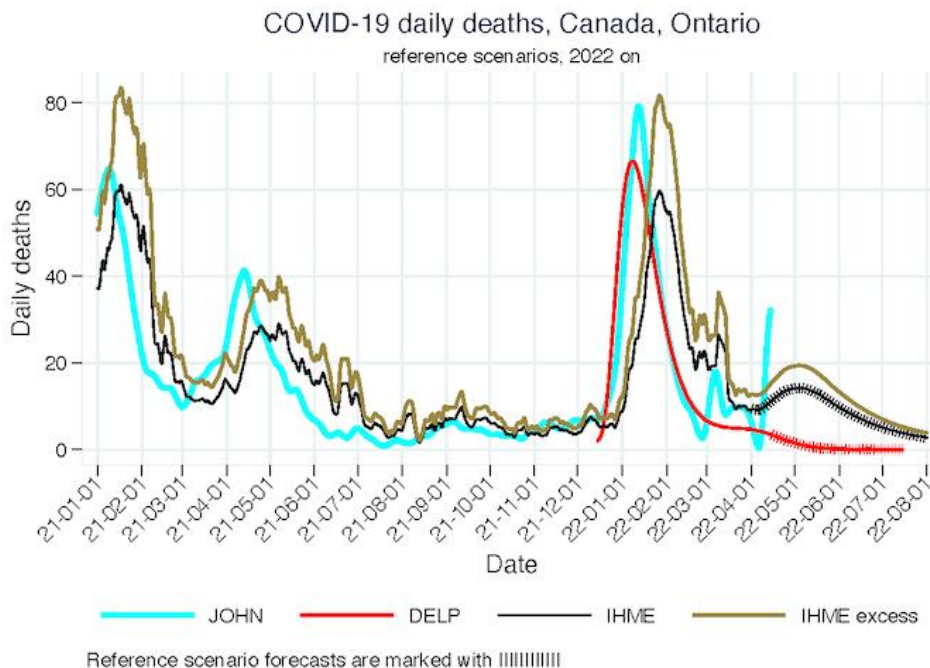


## Selected graphs - Ontario

### (1) Ontario [Daily deaths, Reference scenario, 2020 on](#)

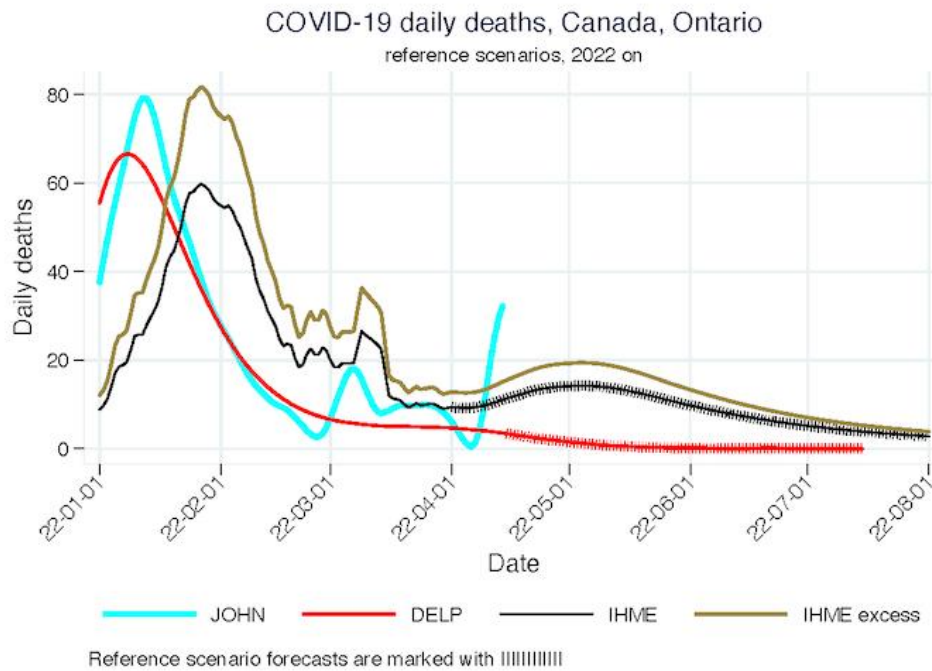


### (2) Ontario [Daily deaths, Reference scenario, 2021 on](#)

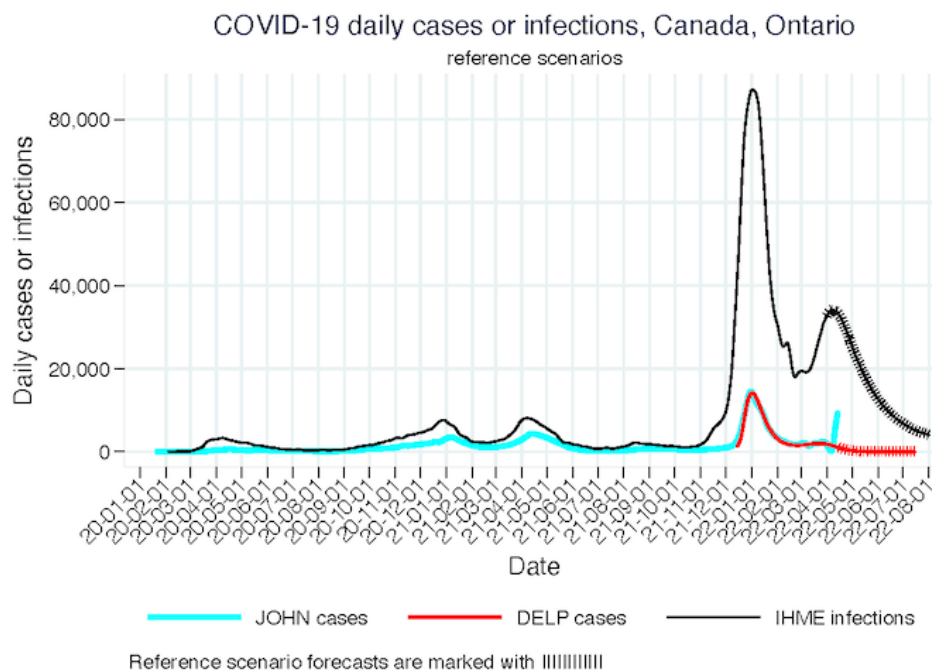




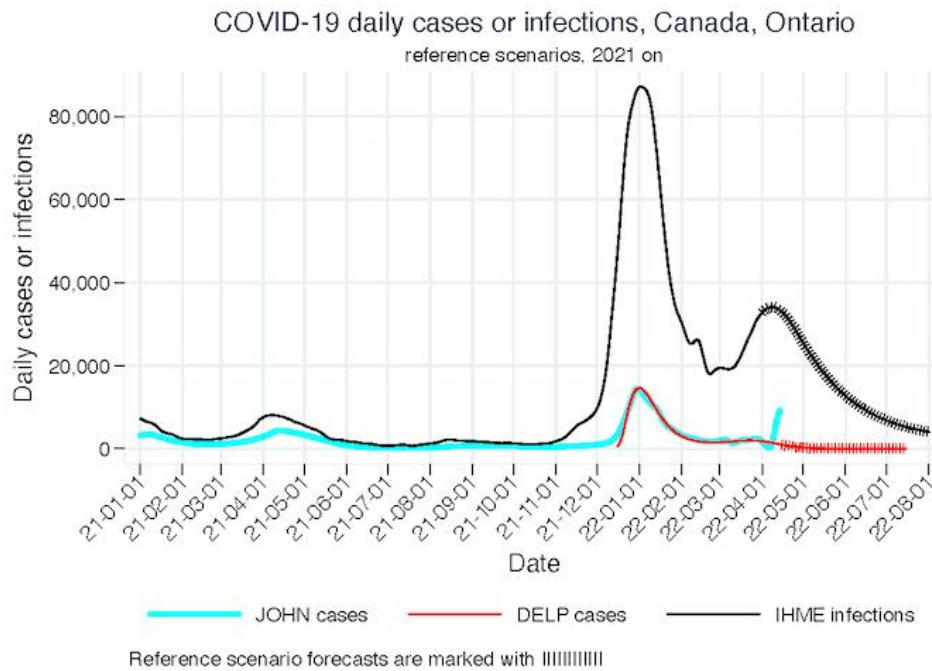
(2b) Ontario [Daily deaths, Reference scenario, 2022 on](#)



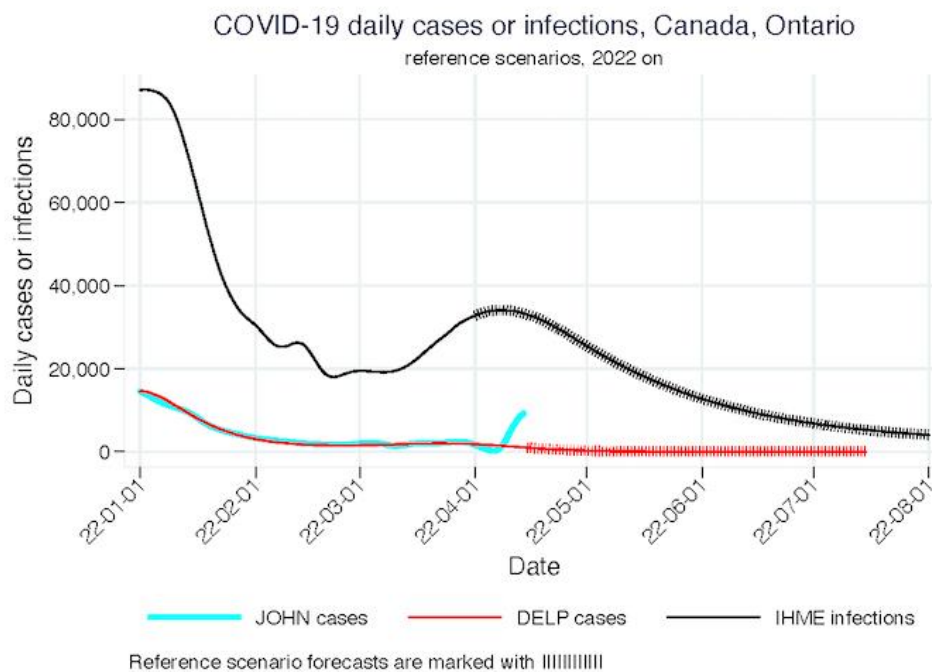
(3) Ontario [Daily cases or infections, Reference scenario, 2020 on](#)



(4) Ontario [Daily cases or infections, Reference scenario, 2021 on](#)

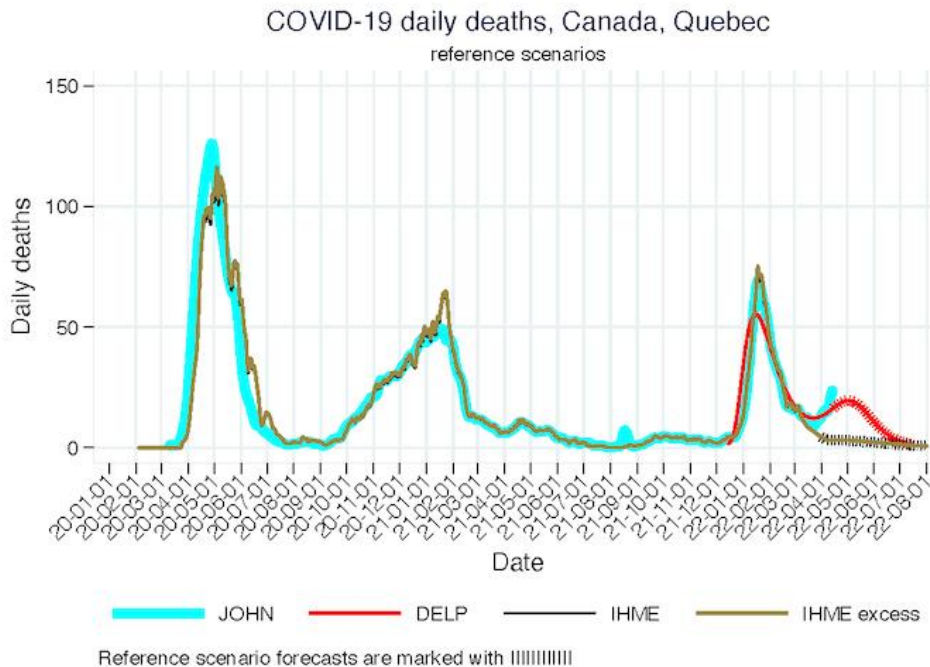


(4b) Ontario [Daily cases or infections, Reference scenario, 2022 on](#)

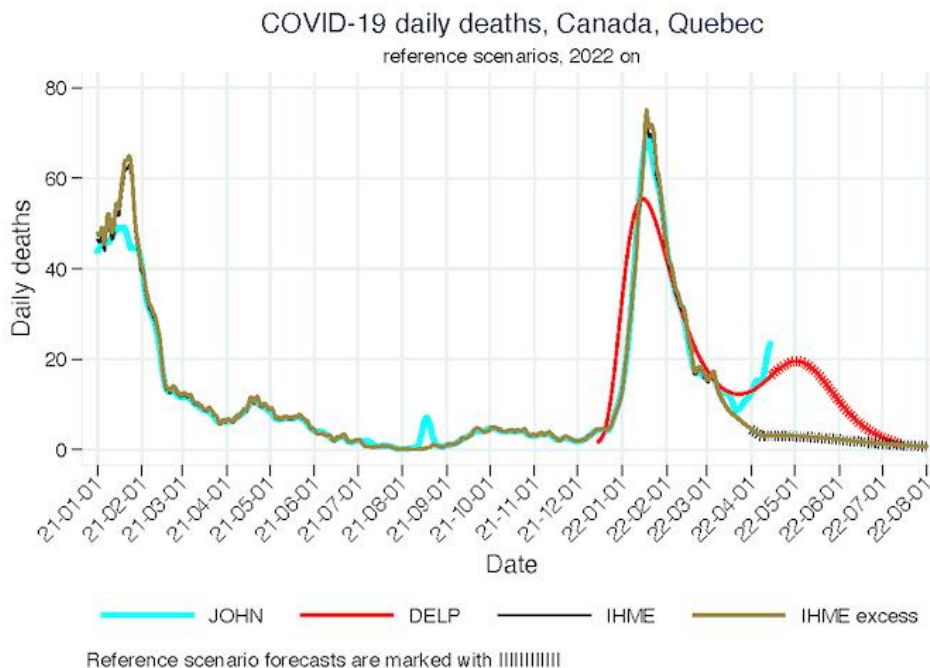


## Selected graphs - Quebec

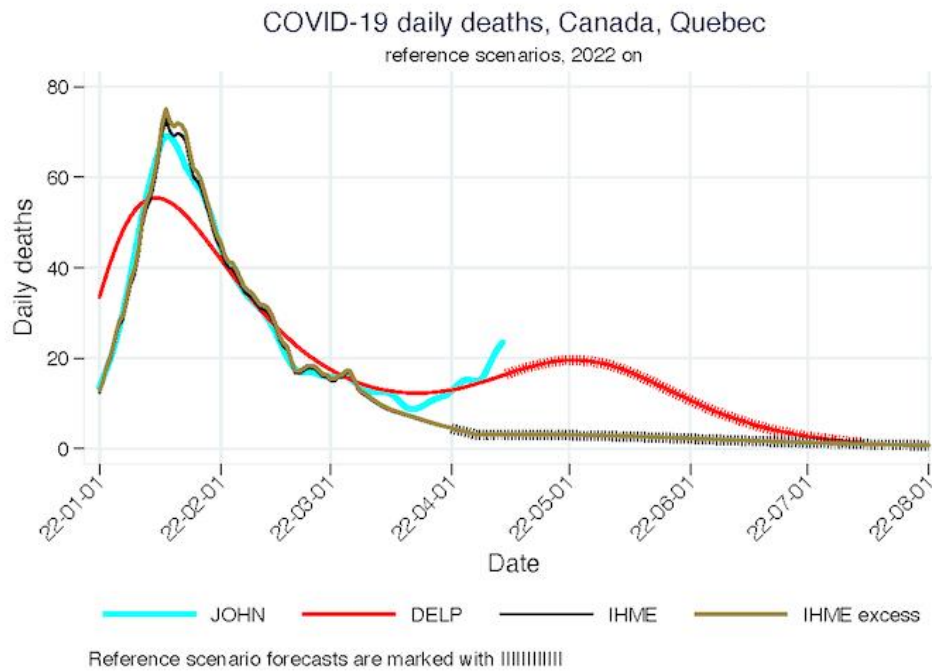
### (1) Quebec [Daily deaths, Reference scenario, 2020 on](#)



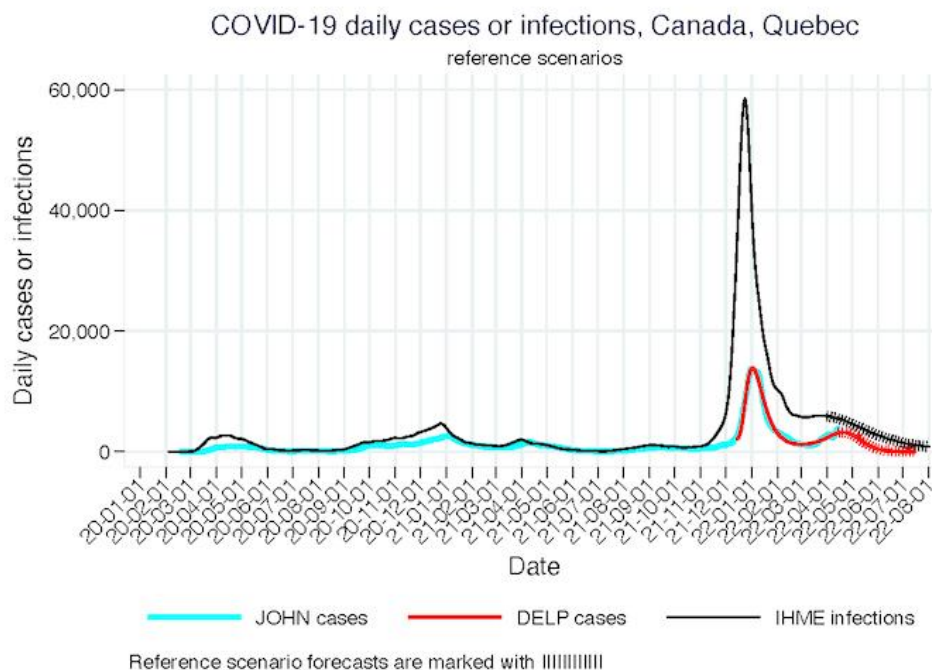
### (2) Quebec [Daily deaths, Reference scenario, 2021 on](#)



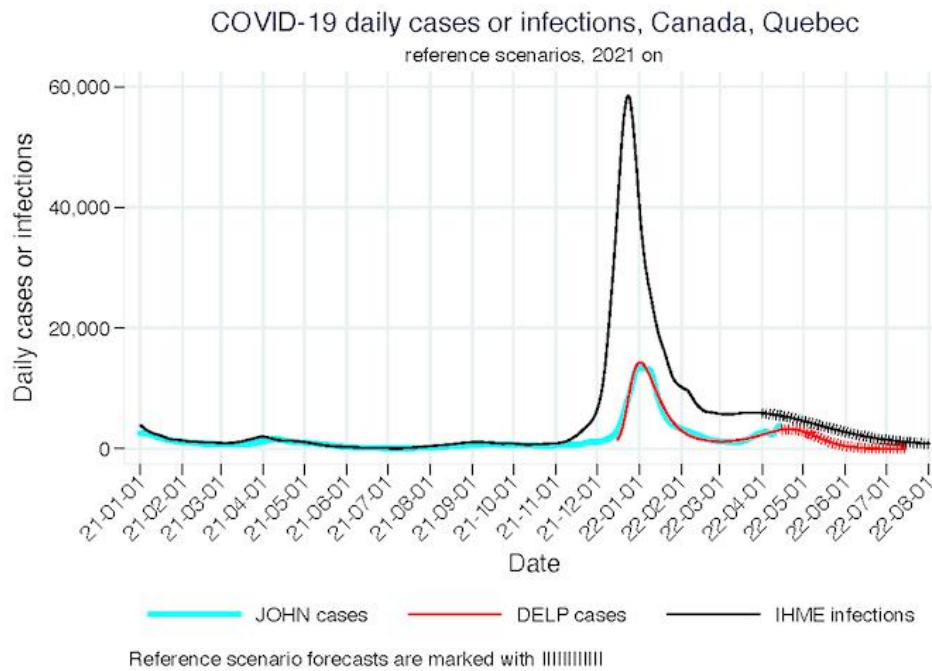
(2b) Quebec [Daily deaths, Reference scenario, 2022 on](#)



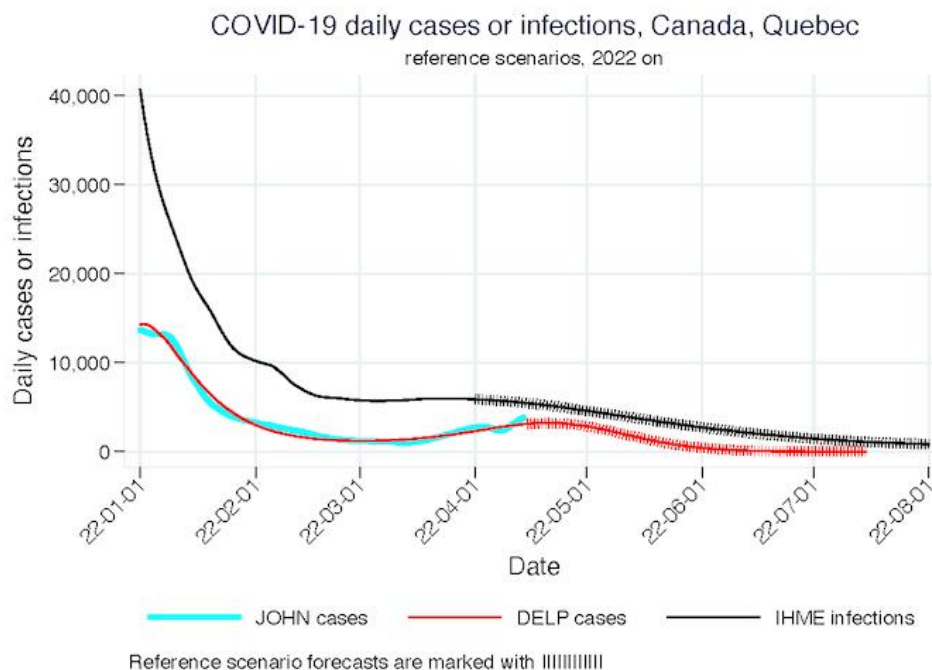
(3) Quebec [Daily cases or infections, Reference scenario, 2020 on](#)



(4) Quebec [Daily cases or infections, Reference scenario, 2021 on](#)



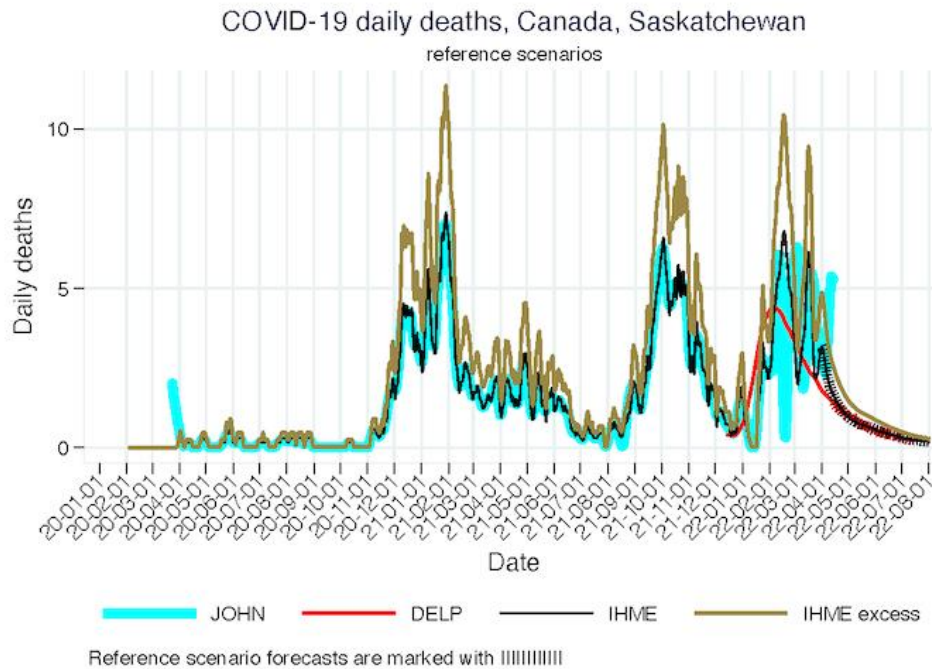
(4b) Quebec [Daily cases or infections, Reference scenario, 2022 on](#)



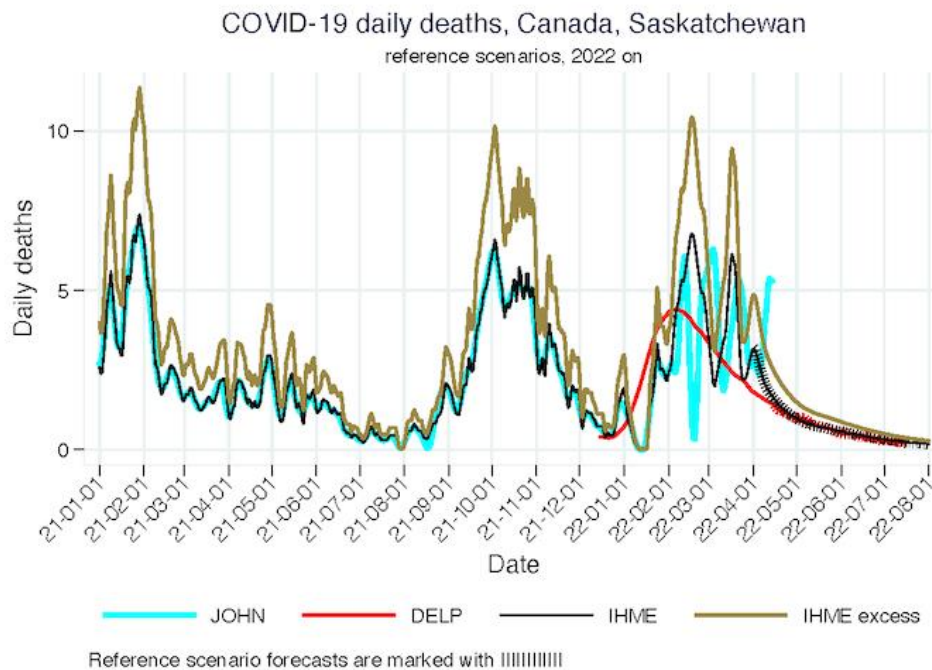


## Selected graphs - Saskatchewan

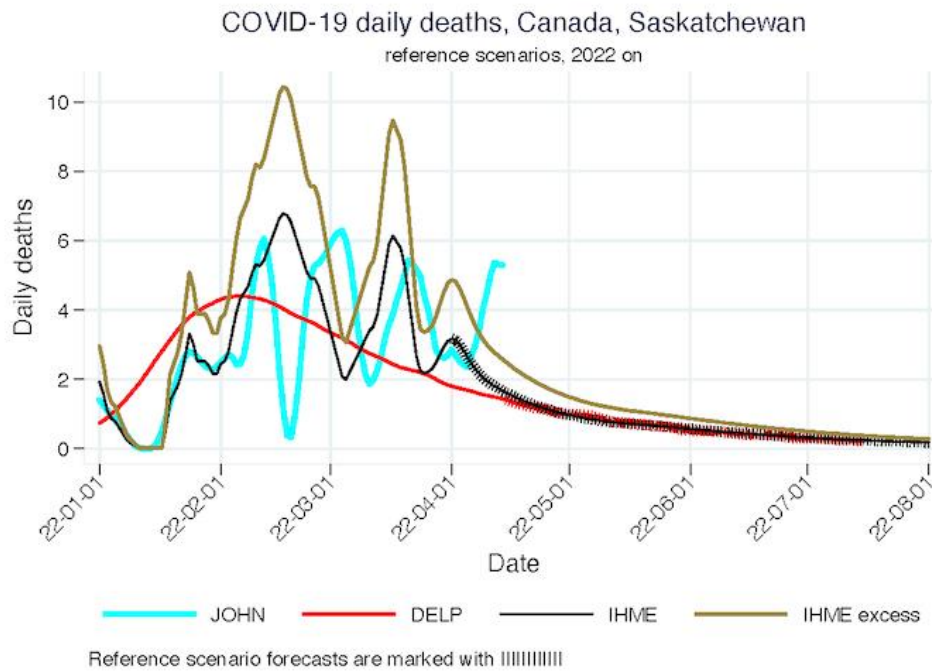
### (1) Saskatchewan [Daily deaths, Reference scenario, 2020 on](#)



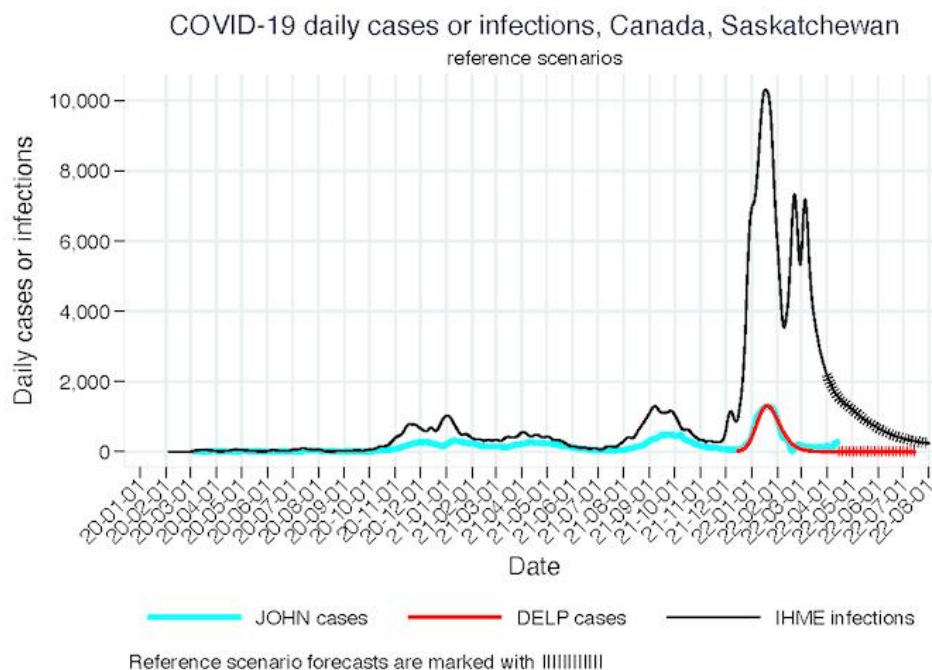
### (2) Saskatchewan [Daily deaths, Reference scenario, 2021 on](#)



(2b) Saskatchewan [Daily deaths, Reference scenario, 2022 on](#)

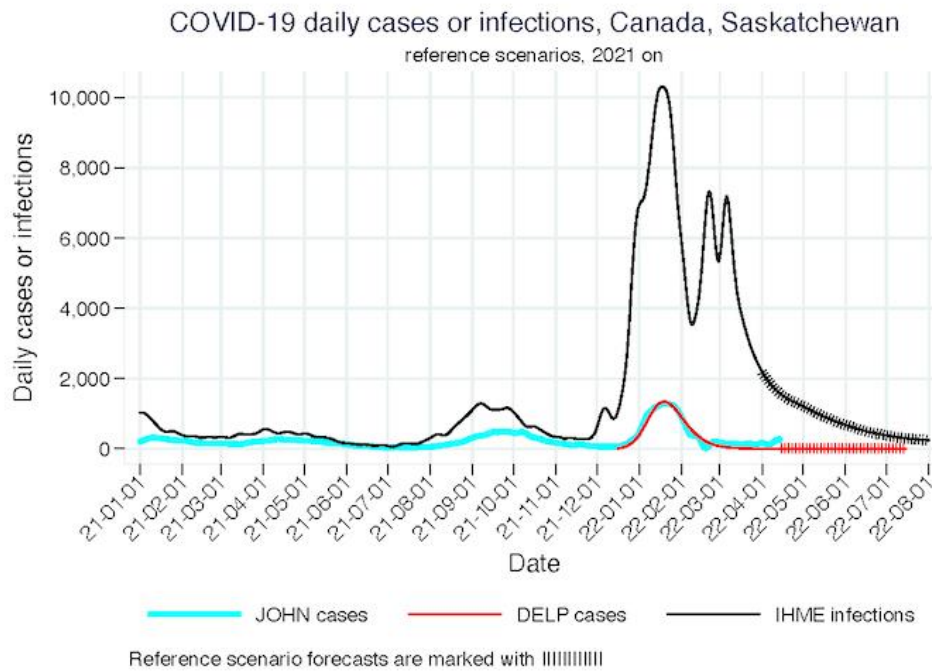


(3) Saskatchewan [Daily cases or infections, Reference scenario, 2020 on](#)





(4) Saskatchewan [Daily cases or infections, Reference scenario, 2021 on](#)



(4b) Saskatchewan [Daily cases or infections, Reference scenario, 2022 on](#)

