#### Canada COVID-19 epidemic models situation report No 44 - 2022-04-22

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

Canada

Based on uptake 20220422 in <a href="https://github.com/pourmalek/CovidVisualizedCountry">https://github.com/pourmalek/CovidVisualizedCountry</a>
<a href="htt

Days old: DELP 0, IHME 14, no IMPE, SRIV 0

The latest available IMPE update (i.e., 2022-01-31) is 82 days old on 2022-04-15. Not included.

The latest update of the PHAC-McMaster model is 64 days old. Not included.

# **Summary 20220422:**

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 predicted (or did not predict).

DELP: <u>model by Massachusetts Institute of Technology, Cambridge</u>
IHME: <u>model by Institute for Health Metrics and Evaluation, Seattle</u>

IMPE: model by Imperial College, London

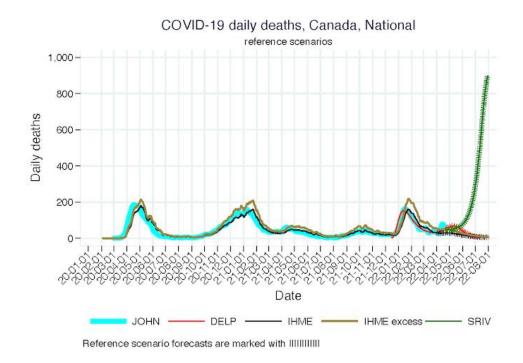
SRIV: model by Srivastava, Ajitesh, University of Southern California, Los Angeles

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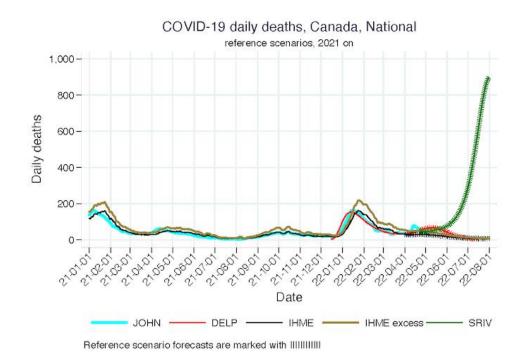
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# Selected graphs - Canada, National

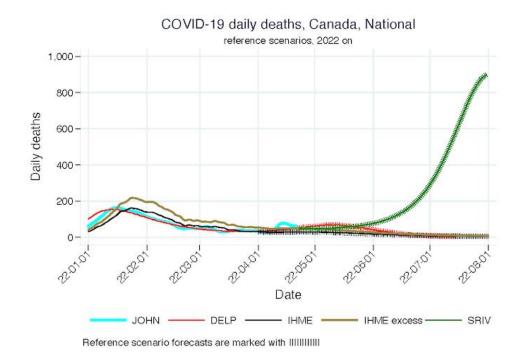
#### (1) Canada Daily deaths, Reference scenarios, 2020 on



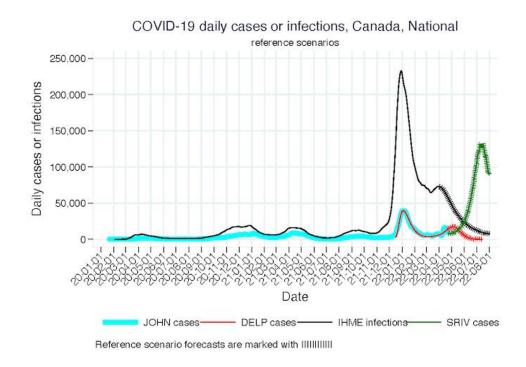
#### (2) Canada National Daily deaths, All scenarios, 2021 on



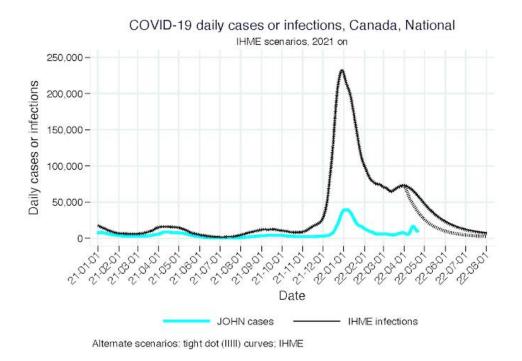
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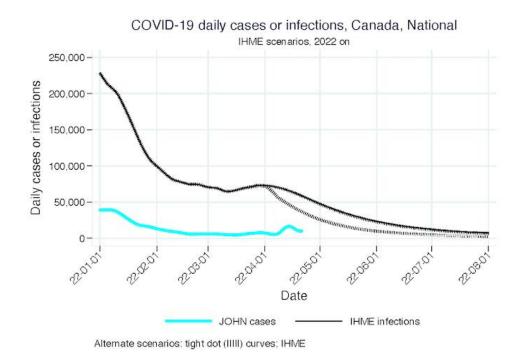
#### (3) Canada National Daily cases or infections, Reference scenarios, 2020 on



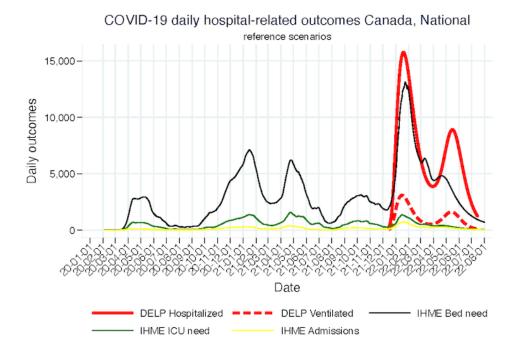
#### (4) Canada National Daily cases or infections, All scenarios, 2021 on



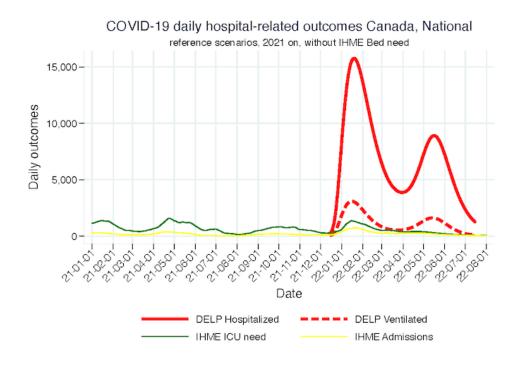
#### (4b) Canada National Daily cases or infections, All scenarios, 2022 on



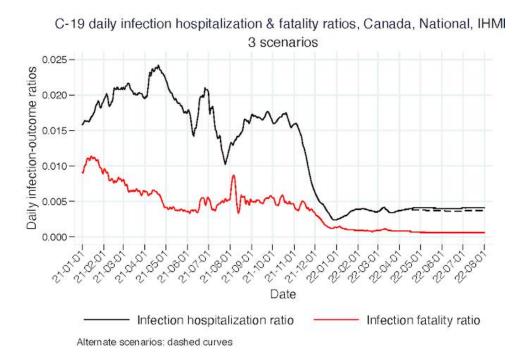
#### (5) Canada National Daily hospital-related outcomes, Reference scenarios, 2020 on



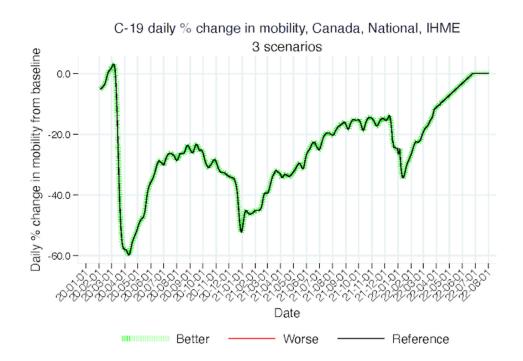
(6) Canada National <u>Daily hospital-related outcomes</u>, <u>without IHME Bed need</u>, <u>IMPE Hospital</u> demand, Reference scenarios, 2021 on



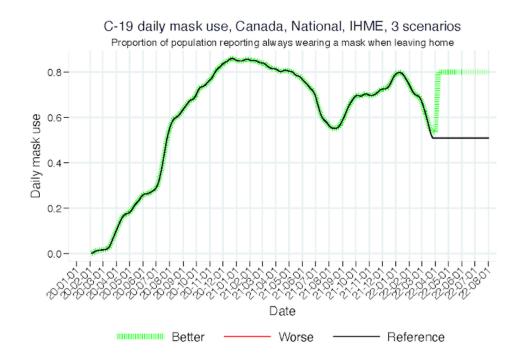
# (7) Canada National <u>Daily Infection hospitalization and fatality ratios</u>, <u>Reference scenario</u>, <u>IHME</u>, 2021 on



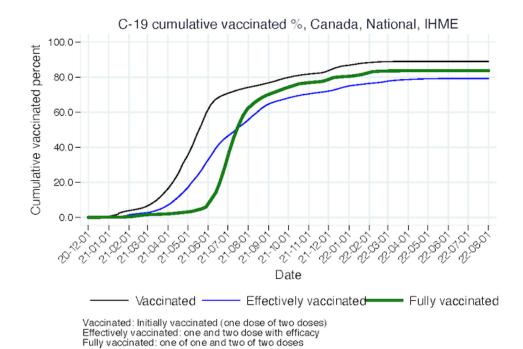
#### (8) Canada National Daily percent change in mobility, IHME, 2020 on



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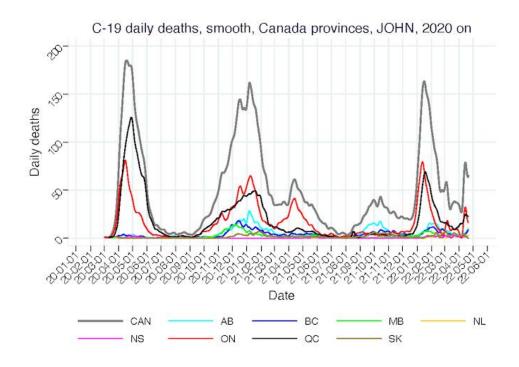


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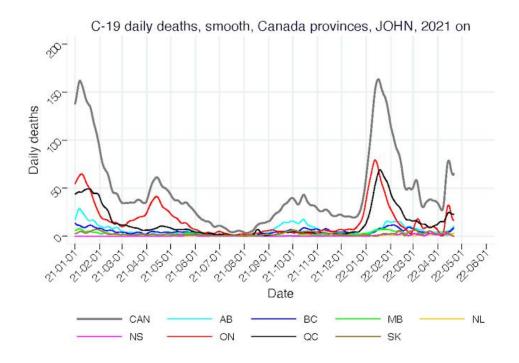


# Selected graphs - Canada, Provinces together

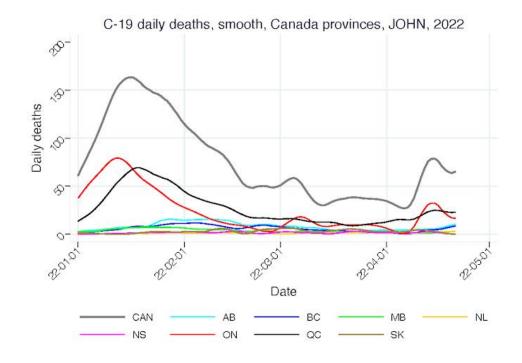
- (a) Official reports to WHO, via JOHN || (b) Models: IHME
- (a) Official reports to WHO, via JOHN
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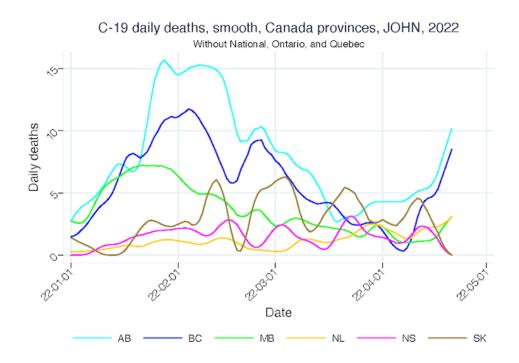
#### (2) Canada Provinces Daily reported deaths, JOHN, 2021 on



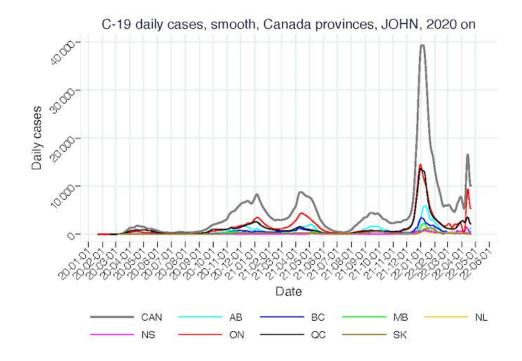
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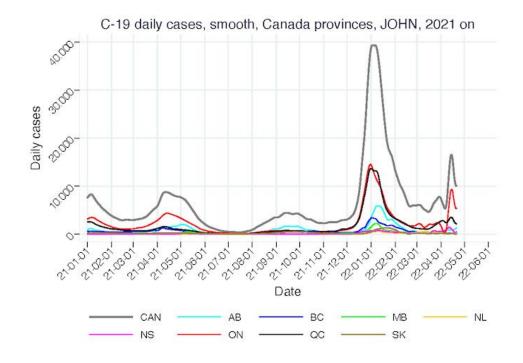
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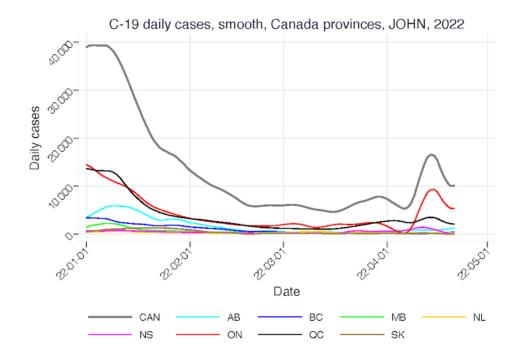
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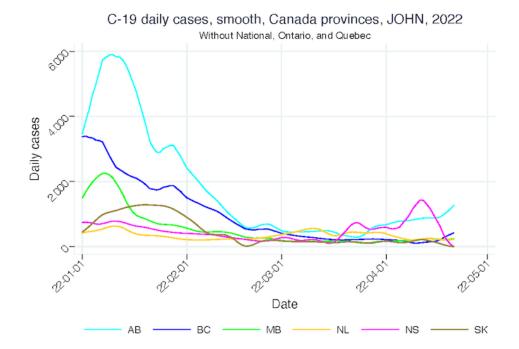
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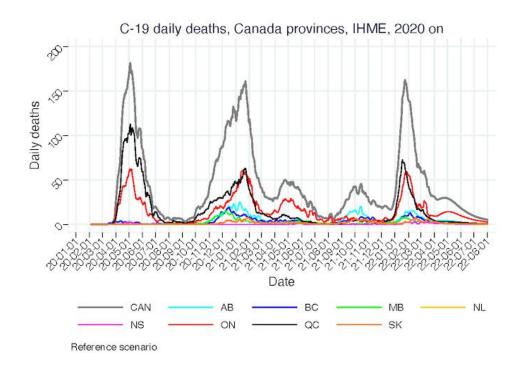


## (8) Canada Provinces Daily reported cases, without National, Ontario, and Quebec, JOHN, 2022

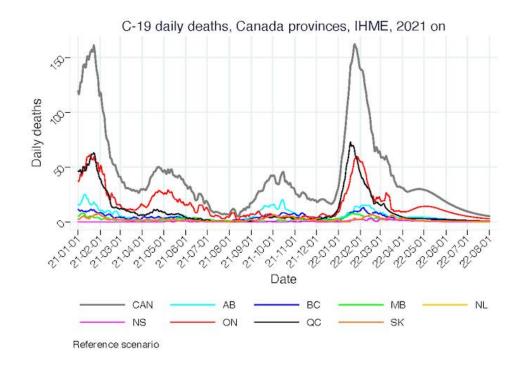


#### (b) Models: IHME

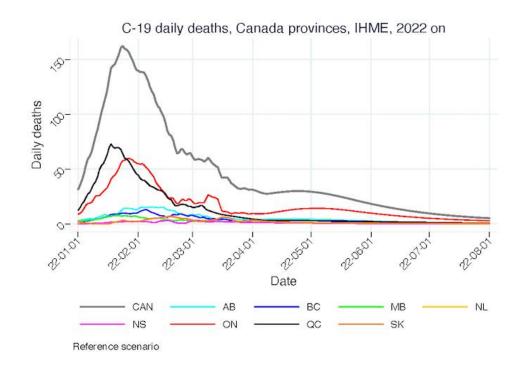
### (9) Canada Provinces Daily deaths, Reference scenario, IHME, 2020 on



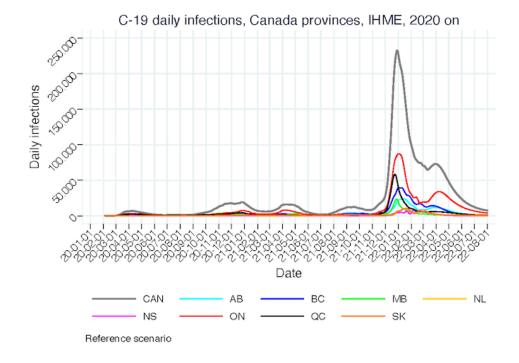
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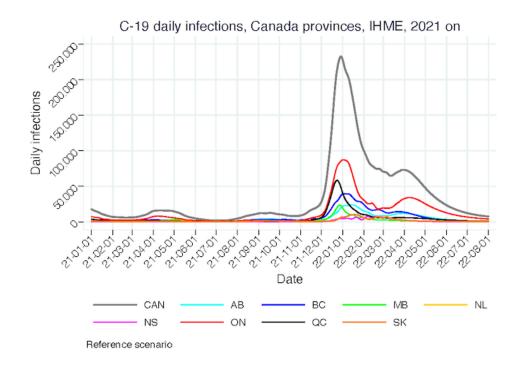
#### (11) Canada Provinces Daily deaths, Reference scenario, IHME, 2022



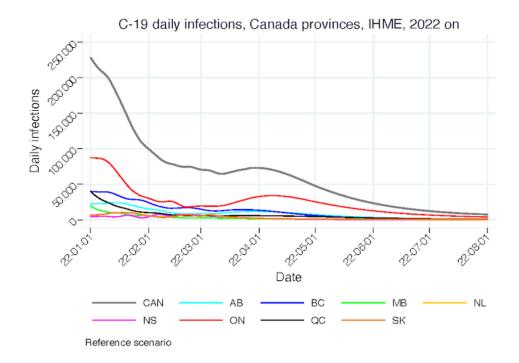
## (12) Canada Provinces Daily infections, Reference scenario, IHME, 2020 on



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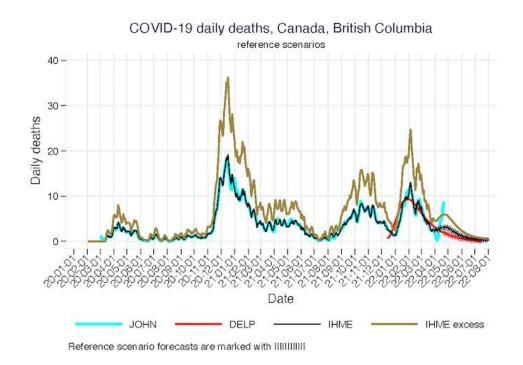


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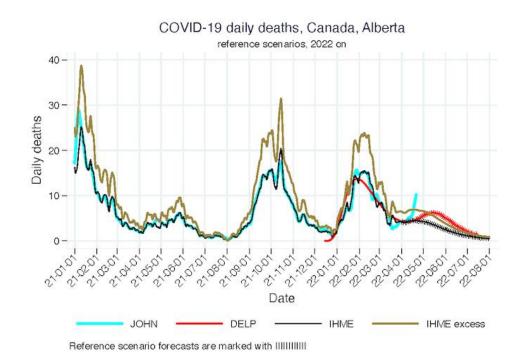


# **Selected graphs - Alberta**

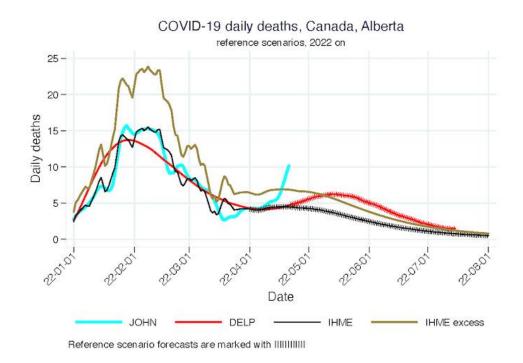
## (1) Alberta Daily deaths, Reference scenario, 2020 on



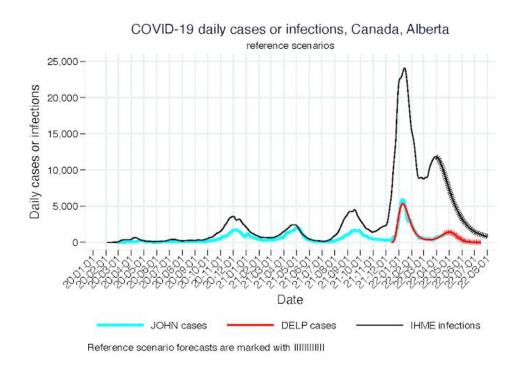
#### (2) Alberta Daily deaths, Reference scenario, 2021 on



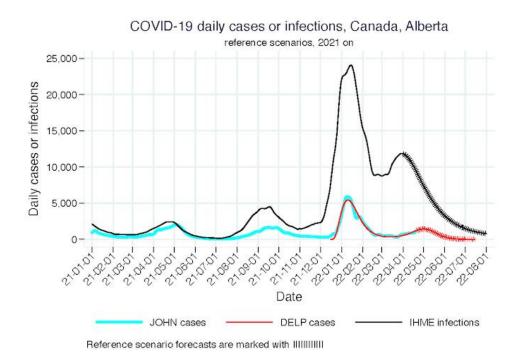
#### (2b) Alberta Daily deaths, Reference scenario, 2022 on



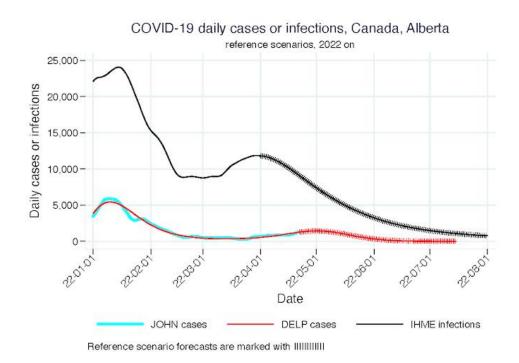
#### (3) Alberta Daily cases or infections, Reference scenario, 2020 on



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

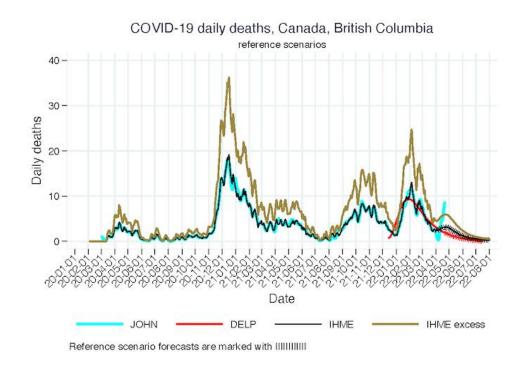


#### (4b) Alberta Daily cases or infections, Reference scenario, 2022 on

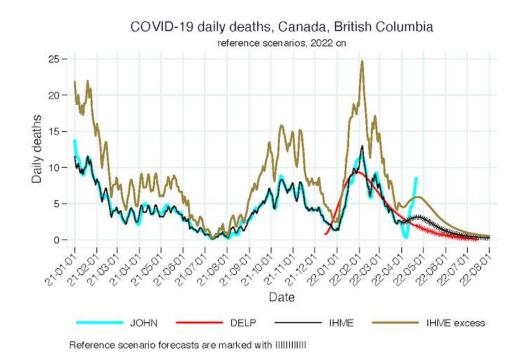


# **Selected graphs - British Columbia**

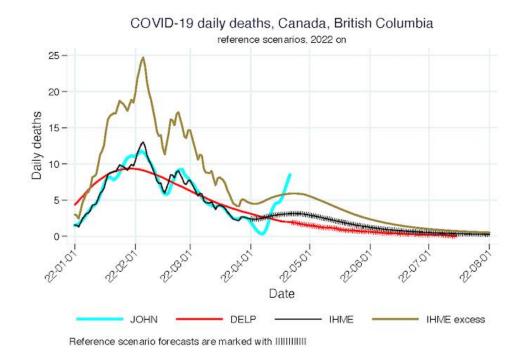
(1) British Columbia Daily deaths, Reference scenario, 2020 on



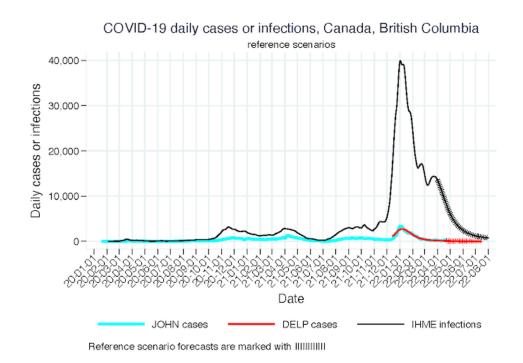
(2) British Columbia Daily deaths, Reference scenario, 2021 on



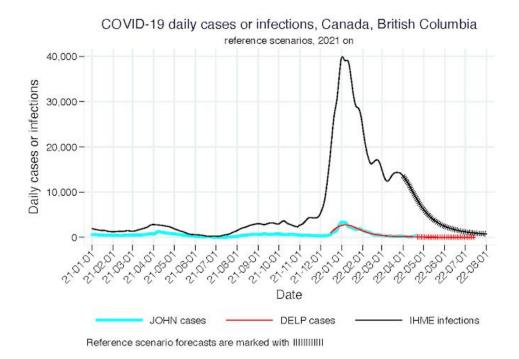
#### (2b) British Columbia Daily deaths, Reference scenario, 2022 on



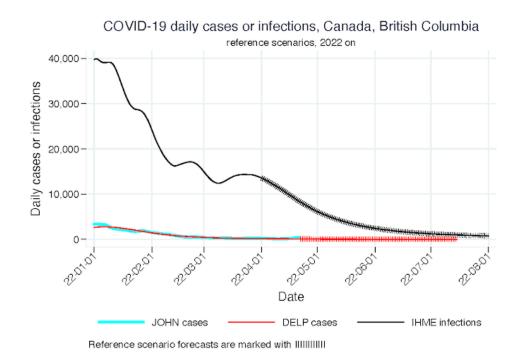
#### (3) British Columbia Daily cases or infections, Reference scenario, 2020 on



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

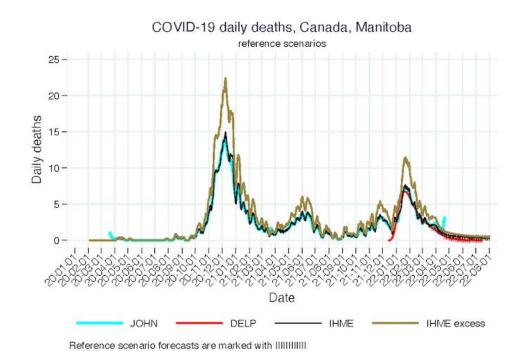


#### (4b) British Columbia Daily cases or infections, Reference scenario, 2022 on

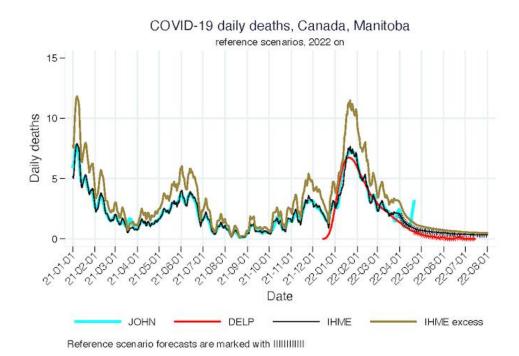


# Selected graphs - Manitoba

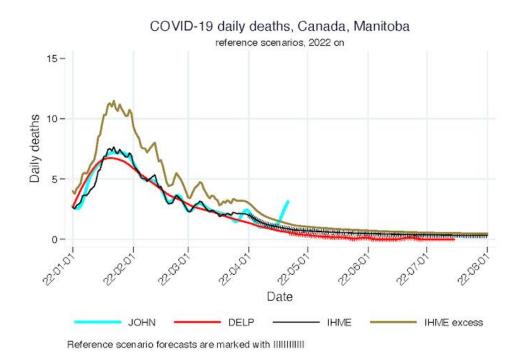
#### (1) Manitoba Daily deaths, Reference scenario, 2020 on



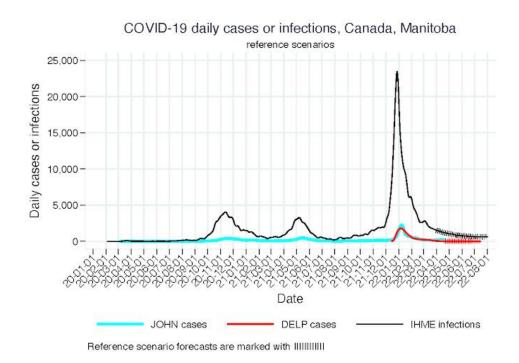
#### (2) Manitoba Daily deaths, Reference scenario, 2021 on



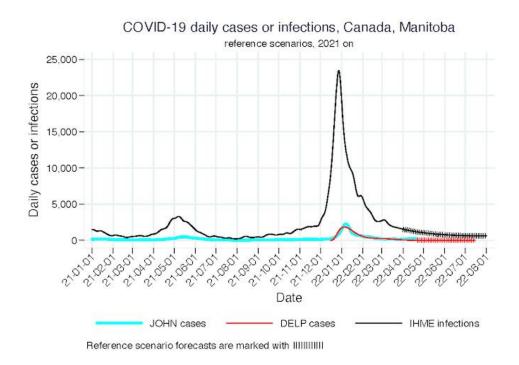
#### (2b) Manitoba Daily deaths, Reference scenario, 2022 on



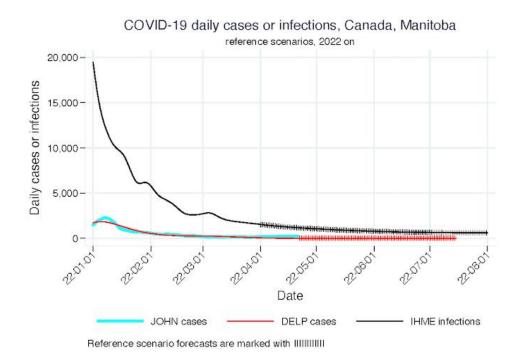
#### (3) Manitoba Daily cases or infections, Reference scenario, 2020 on



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

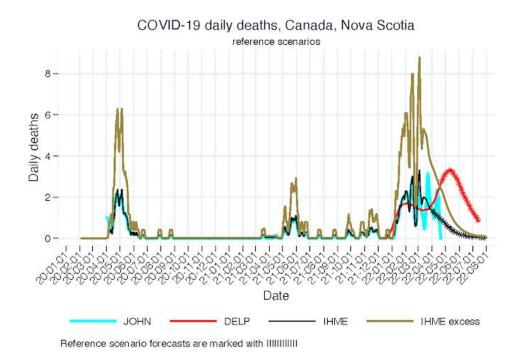


#### (4b) Manitoba Daily cases or infections, Reference scenario, 2022 on

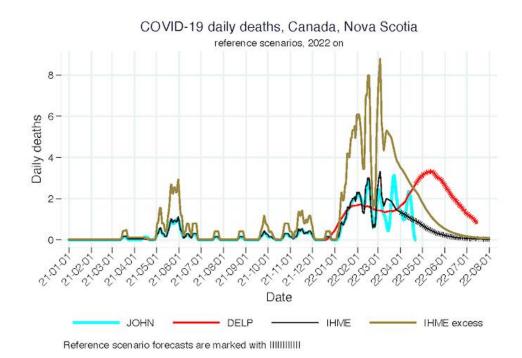


# Selected graphs - Nova Scotia

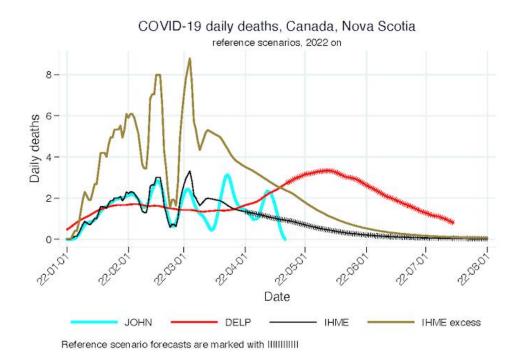
(1) Nova Scotia Daily deaths, Reference scenario, 2020 on



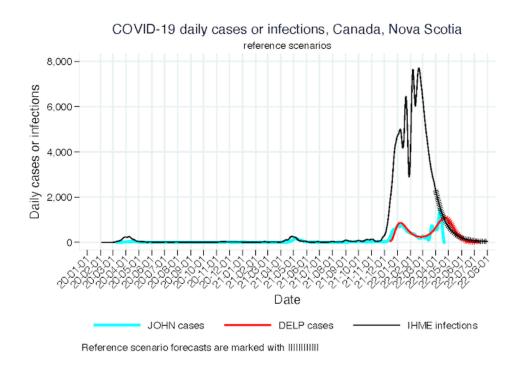
(2) Nova Scotia Daily deaths, Reference scenario, 2021 on



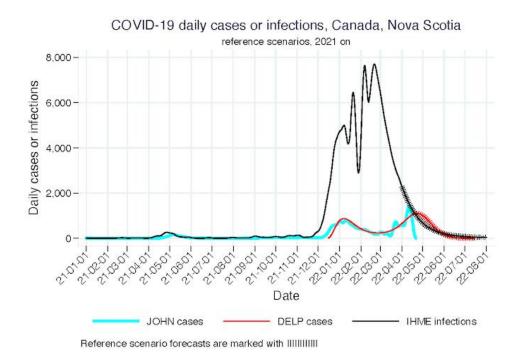
#### (2b) Nova Scotia Daily deaths, Reference scenario, 2022 on



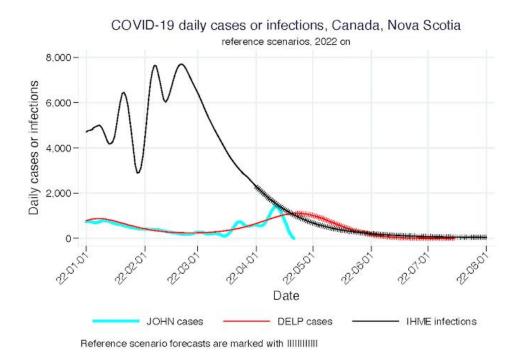
#### (3) Nova Scotia Daily cases or infections, Reference scenario, 2020 on



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

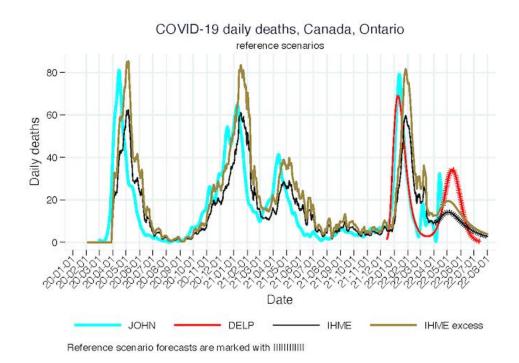


#### (4b) Nova Scotia Daily cases or infections, Reference scenario, 2022 on

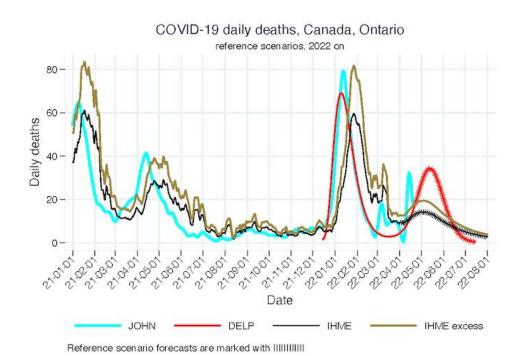


# **Selected graphs - Ontario**

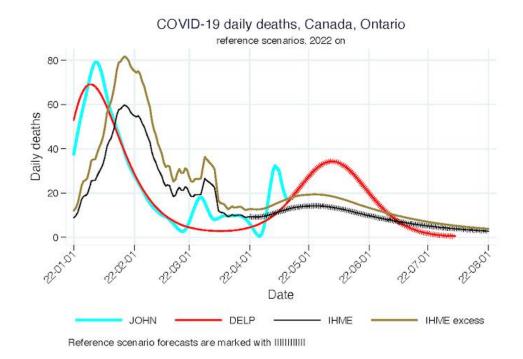
#### (1) Ontario Daily deaths, Reference scenario, 2020 on



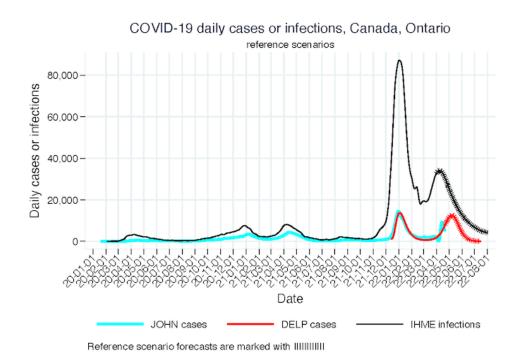
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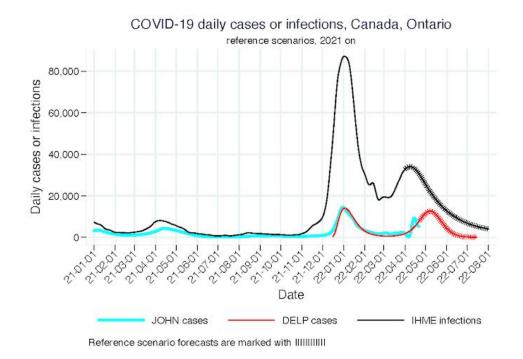
#### (2b) Ontario Daily deaths, Reference scenario, 2022 on



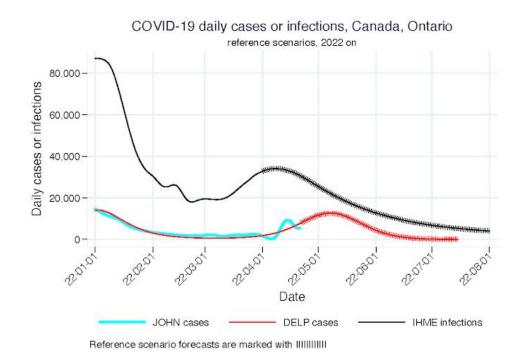
#### (3) Ontario Daily cases or infections, Reference scenario, 2020 on



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

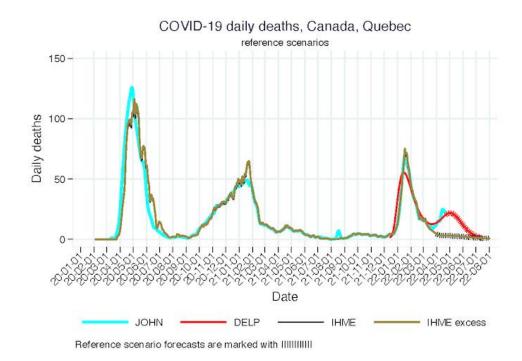


#### (4b) Ontario Daily cases or infections, Reference scenario, 2022 on

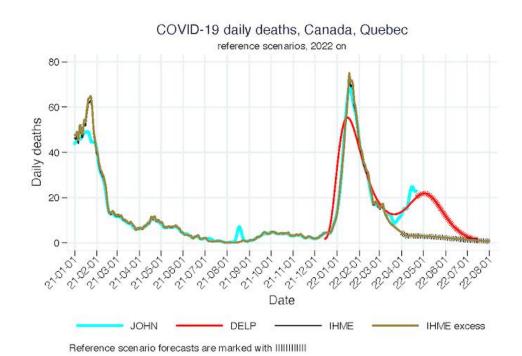


# **Selected graphs - Quebec**

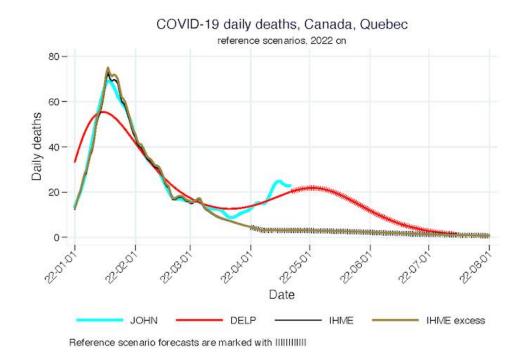
#### (1) Quebec Daily deaths, Reference scenario, 2020 on



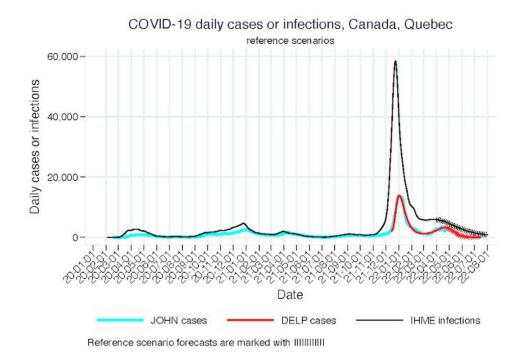
(2) Quebec Daily deaths, Reference scenario, 2021 on



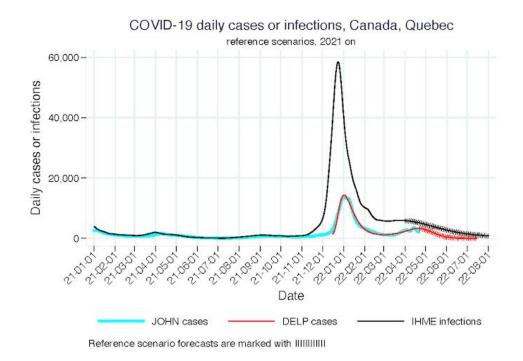
#### (2b) Quebec Daily deaths, Reference scenario, 2022 on



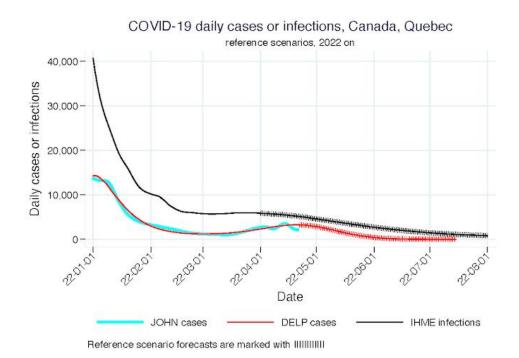
#### (3) Quebec Daily cases or infections, Reference scenario, 2020 on



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

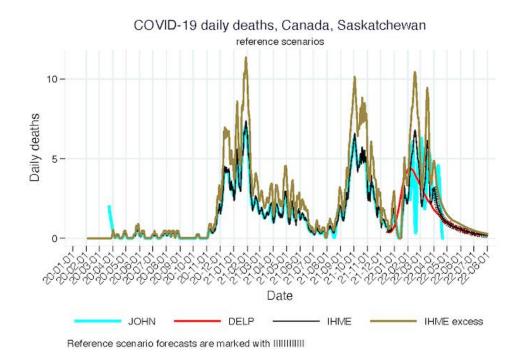


#### (4b) Quebec Daily cases or infections, Reference scenario, 2022 on

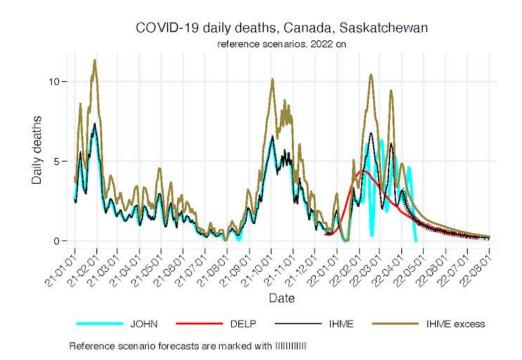


# Selected graphs - Saskatchewan

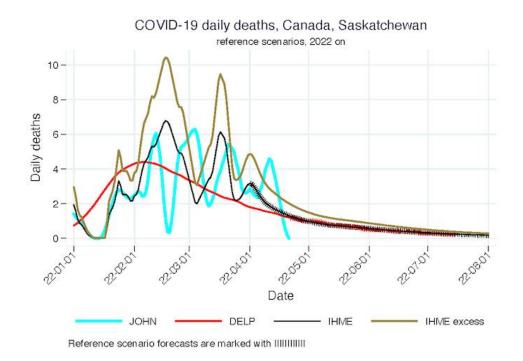
## (1) Saskatchewan Daily deaths, Reference scenario, 2020 on



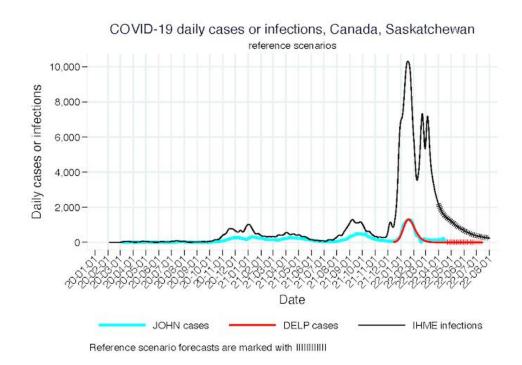
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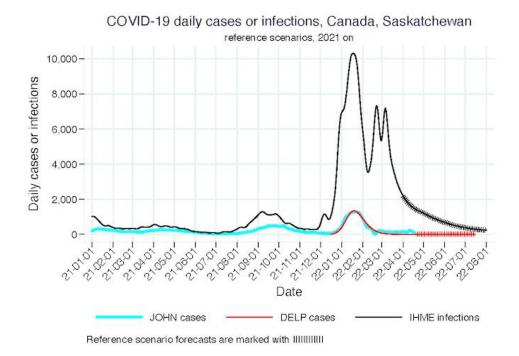
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#### (3) Saskatchewan Daily cases or infections, Reference scenario, 2020 on



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



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

