

Additional observations related to the “Elephant in the Room” – from Government of Canada COVID-19 daily epidemiology updates. Time to act!

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This comment follows up on previous observations made in relation to the COVID-19 vaccine and death statistics since the start of the general public vaccination in Canada in Spring 2021 that were made by analyzing Open Canada Vital Statistics Death (CVSD) database [1]. Here we make additional observations related to the same “Elephant in the Room” (safety and efficacy of Vaccines). This time these are made from another Open Canada data source: “COVID-19 epidemiology updates”, which are published at <https://health-infobase.canada.ca/covid-19/epidemiological-summary-covid-19-cases.html> [2], the cached copies of which can be retrieved using “WayBackMachine” Internet Archive (<https://web.archive.org/>) and which are now also archived at <https://github.com/open-canada/vitals/upload/main/docs/COVID-19%20epidemiology%20updates>.

The slide in Appendix A summarizes the main observation. The way statistics is reported in “COVID-19 epidemiology updates” exposes the algorithmic bias that is introduced in calculating the statistics related to the percentage of non-vaccinated COVID-19 deaths vs. that of vaccinated COVID-19 deaths (pages 20-22, Figure 5, Tables 2-3 in the PDF versions of the report).

As shown in Figure 1 below, and as can be validated using the Vital Statistics App (<https://open-canada.github.io/Apps/vitals>), the majority (over 75%) of all deaths that happened in the analyzed period (which is from December 14, 2020, when the first vaccine dose was administered, to the date when the report is published) happened right after Christmas 2020, when there were practically no (statistically speaking, insignificant number of) fully-vaccinated people. More specifically:

There were 0 fully-vaccinated as of January 4, less than 1% as of February 18, less than 2 % as of April 6, less than 3% as of April 30, and less than 10% as of June 10, 2021, after which the full-vaccination quickly reached 78% by November, and staying the same approximately the same (+/- 2%) since then.

In other words, whether deliberately or undeliberately, a significant positive bias (or “advantage”) for fully-vaccinated has been embedded directly in the way the proportion of fully-vaccinated deaths has been computed and reported to the public.

Having access to the past archived “COVID-19 epidemiology updates” however allows one to reverse-engineer and remove this bias from computation. To do this, it is simply sufficient to subtract the numbers (of vaccinated and non-vaccinated COVID-19 deaths) reported in two consecutive reports. The difference between those numbers will be the

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true observed number of deaths observed between the dates of the two reports, which can then be used to compute the true (bias-removed) proportions of non-vaccinated COVID deaths vs. vaccinated COVID deaths in the considered period. On the next page, we apply this technique to compute the true (bias-removed) deaths proportions for the last month.

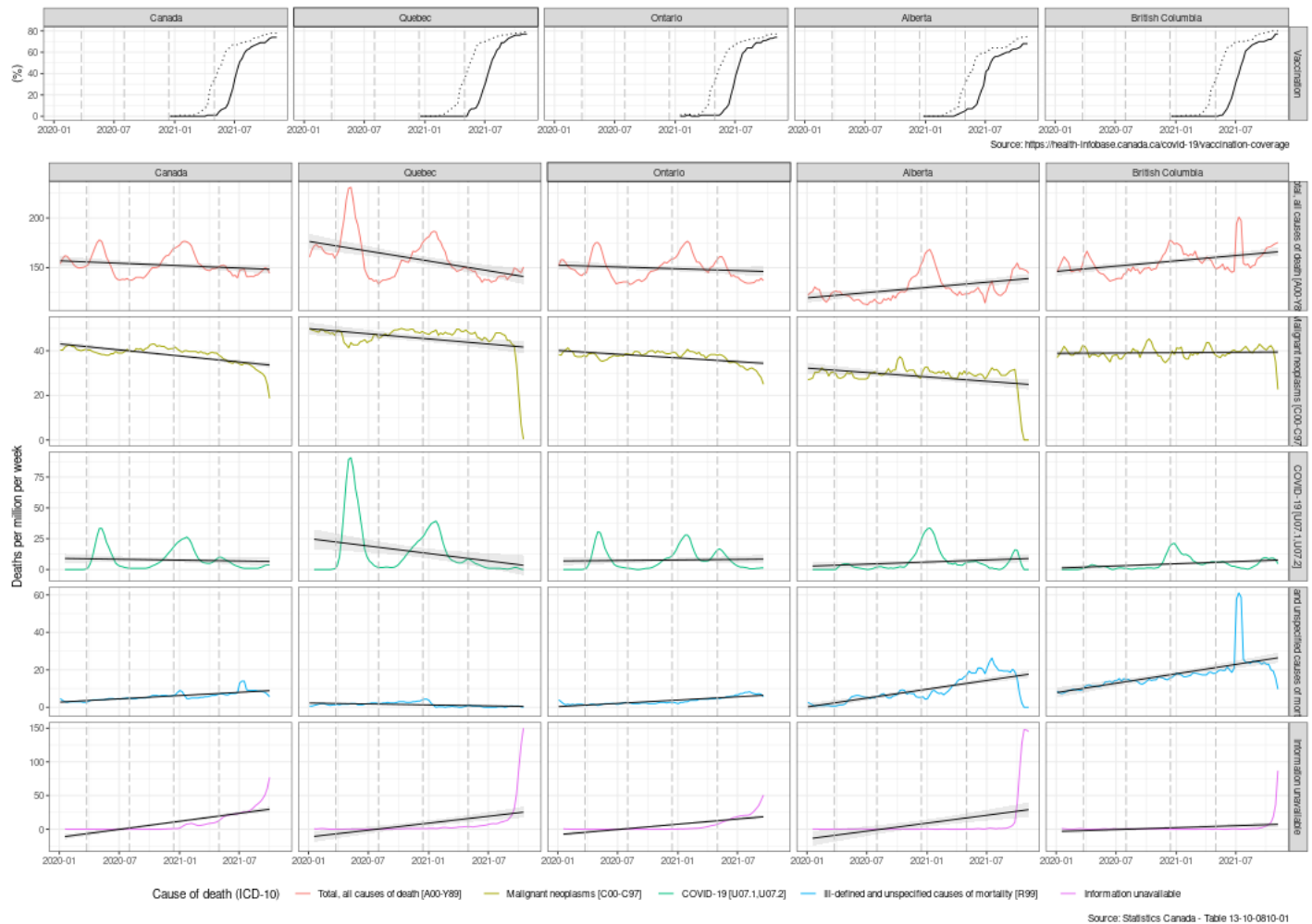


Figure 1: Vaccination and weekly death rates by cause in Canada and during the pandemic and vaccination.

Coloured time-series lines show CVSD statistics (deaths per million per week) at the national level and in four most populated provinces for the total number of deaths, cancer (the leading cause of death), “COVID deaths”, as well for two unexplained causes (Ill-defined and unspecified causes [R99] and the number of unreported causes [Information unavailable]). In the top graph, solid lines show full vaccination rate, dash lines show the rate of vaccinated with at least one dose. Vertical lines mark four distinct periods observed: early pandemic pre-vaccination (varying policies across provinces), late pandemic pre-vaccination phase (consistent policies across provinces), early (high-risk population) vaccination, late (general public) vaccination. The use of different scales for each cause category is noted.

Multiple anomalies (or more exactly, “new normals”) since the start of pandemic and later since the vaccination are observed, and several observations that contradict the official Government of Canada narrative are made. This includes the absence of excess in total number of deaths over the entire period; rather small number of COVID deaths – compared to the very large (x1000) number of COVID cases that have been reported, especially in the “first wave” (which practically did happen in Alberta and British Columbia, which, as known, had different policies at the start of pandemic); decrease in all non-covid causes; and sharp increase in the number of unexplained deaths, since April, which when the vaccination has been extended to younger (low-risk) population.

How to remove algorithmic bias in COVID-19 deaths reporting. Case study: Deaths from COVID -19 last month

Consider two reports one month apart: as of **January 15, 2022** and as of **December 04, 2021** (see below)

Characteristics and severe outcomes associated unvaccinated, partially vaccinated and fully vaccinated confirmed cases reported to PHAC, as of January 15, 2022

Status	Cases
Unvaccinated	771,095
Cases not yet protected	44,494
Partially vaccinated	61,209
Fully vaccinated	581,635

Characteristics and severe outcomes associated unvaccinated, partially vaccinated and fully vaccinated confirmed cases reported to PHAC, as of December 04, 2021

Status	Cases
Unvaccinated	709,123
Cases not yet protected	43,114
Partially vaccinated	52,116
Fully vaccinated	88,742

By subtracting numbers in the 4th Dec table from the numbers in the 15th Jan tabs, one obtains the following that there were **492,893** cases among fully vaccinated vs. only **61,971** cases among the not-vaccinated between December 04 and January 15, 2022. That is, the number of vaccinated who died from COVID-19 in the past month is almost an order of magnitude (x10) larger than that of unvaccinated, whereas the percentage of vaccinated population in Canada now is only about four time (x4) larger than percentage of the unvaccinated population (80% vs. 20%)

Conclusion:

The conclusion is clear and sober: Vaccination makes people more vulnerable to deaths from COVID-19 (by the factor of two, at minimum). On top of that, it is also documented now that vaccination causes multiple serious health damages, including deaths. The following numbers adverse events are currently reported [2] for dates above:

	Total Non-serious	Total Serious
14-Jan-22	27,927	7,445
03-Dec-21	25,511	6,946

This yields for the same period (between Dec 04 and Jan 15): **2416 Non-serious**, and **499 Serious** ones, which includes severe auto-immune diseases, cardiac arrests, myocarditis, pericarditis, blood clots, kidney and liver failures, central nervous system failures (including Bell's Palsy), anaphylaxis, deaths and other.

It is also known that it many adverse events are not reported in Canada for two reasons: first, reporting of *Non-serious* adverse events is not mandatory in Canada, doctors commonly do not report these events unless pressured by patients, many patients may not associate the worsening of their health after vaccination with the vaccine, and if they do, they do not know how to do it; second, it takes several months until the reports are validated and published.

Therefore, we, the authors of this report, call for the Government of Canada to urgently do the following:

- Start reporting deaths by vaccination status without embedded bias, as described in this paper, and as this is done with reporting of side effects.
- Suspend administration of COVID-19 vaccines (in particular for children and other low-risk population), until the proper unbiased analysis deaths by vaccination status is conducted and reported to the public.
- Rescind all policies that require mandatory vaccination, and finally
- Promote widely the voluntary reporting of non-serious vaccine adverse events by consumers, specifically in such a way that the link to the voluntary reporting page could be easily found from main Health Canada page or by Google search (currently it is practically impossible to find this page unless provided directly over the phone or by another person)

References

- [1] "Some observations from Canadian Vital Statistics Death (CVSD) Database related to the 'Elephant in the Room'" (D.Gorodnichy, R.Kulik, S.Matwin). Submission to The Lancet Journal. 2022/01/16, <https://open-canada.github.io/vitals/comment.pdf>
- [2] 'Cases following vaccination', COVID-19 Daily Epidemiology Update, Public Health Agency of Canada, <https://health-infobase.canada.ca/covid-19/epidemiological-summary-covid-19-cases.html>
- [3] 'Reported side effects following COVID-19 vaccination in Canada', Canadian COVID-19 vaccination safety report, Public Health Agency of Canada, <https://health-infobase.canada.ca/covid-19/vaccine-safety/>

Appendix: How to detect algorithmic bias in COVID-19 deaths reporting (Slide)



Reverse-engineering algorithmic bias. Case Study: Vaccinated vs. Non-vaccinated deaths

<https://health-infobase.canada.ca/covid-19/epidemiological-summary-covid-19-cases.html>

Recall: There were no fully-vaccinated before January, <1% before March, <3% before May, and ... most* (50-75%), deaths happened exactly then.

Try it yourself:

- Open link above, write down numbers in red boxes and compare them a week later!
- Or, compare these numbers in past reports since November (archived [here](#)).

Observe:

These numbers monotonically change (one down, one up) every week - according to math behind them...

*computed using [Vitals App Calculator](#)

Table 2. Characteristics and severe outcomes associated unvaccinated, partially vaccinated and fully vaccinated confirmed cases reported to PHAC, as of December 18, 2021

		Unvaccinated (n=727,925)	Cases not yet protected (n=43,471)	Partially vaccinated (n=53,171)	Fully vaccinated (n=122,843)	Total cases (n=947,410)
Gender*	Male	371,897 (78.5%)	20,959 (4.4%)	24,980 (5.3%)	56,197 (11.9%)	474,033 (100%)
	Female	354,365 (75.2%)	22,454 (4.8%)	28,113 (6.0%)	66,344 (14.1%)	471,276 (100%)
Hospitalizations		40,788 (79.5%)	3,062 (6.0%)	3,374 (6.6%)	4,099 (8.0%)	51,323 (100%)
Deaths		8,013 (75.6%)	759 (7.2%)	744 (7.0%)	1,077 (10.2%)	10,593 (100%)

Source: Detailed case information received by PHAC from provinces and territories, since December 14, 2020

As of today, February 4, 2022 : Total cases (n=1,458,433)

Fully vaccinated 2,032 (16.8%), +3% since last week, +8% since November