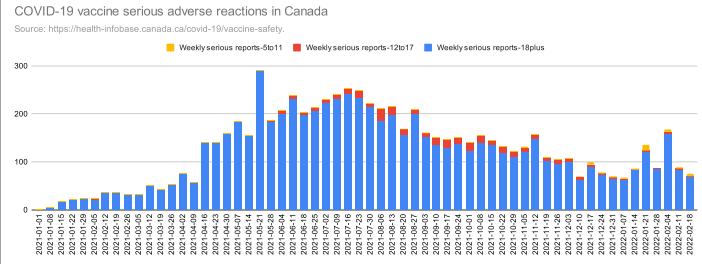
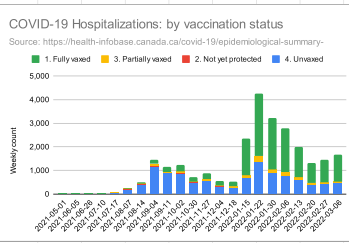
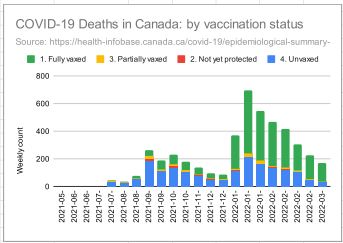
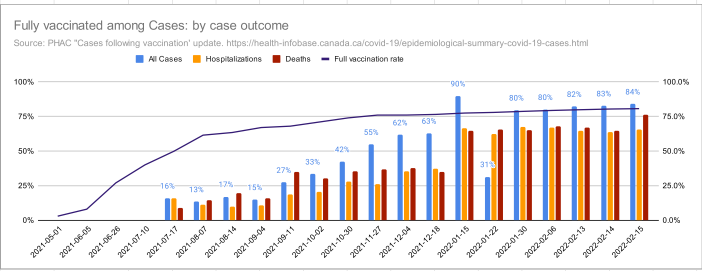


| All cases following vaccination | | | | | | | | | | | | | | | Hospitalizations | | | | | | | | | | | | | | | Deaths | | | | | | | | | | | | | | | Complications from Covid vs. from Vaccines | | | | | | | | | | | | | | | Risk reduction (unvaccinated / fully vaccinated) | | | | | | | | | | | | | | |
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| Cases | | | | | | | | | | | | | | | Hospitalizations | | | | | | | | | | | | | | | Deaths | | | | | | | | | | | | | | | Complications from Covid vs. from Vaccines | | | | | | | | | | | | | | | Risk reduction (unvaccinated / fully vaccinated) | | | | | | | | | | | | | | |
| Reported (counting cases since Dec 2020) | | | | | | | | | | | | | | | Reported (counting cases since Dec 2020) | | | | | | | | | | | | | | | Reported (counting cases since Dec 2020) | | | | | | | | | | | | | | | Average weekly counts | | | | | | | | | | | | | | | Average weekly counts | | | | | | | | | | | | | | |
| Average weekly counts | | | | | | | | | | | | | | | Average weekly counts | | | | | | | | | | | | | | | Average weekly counts | | | | | | | | | | | | | | | Average weekly counts | | | | | | | | | | | | | | | Average weekly counts | | | | | | | | | | | | | | |
| Fully vaccinated / Total (%) | | | | | | | | | | | | | | | Fully vaccinated / Total (%) | | | | | | | | | | | | | | | Fully vaccinated / Total (%) | | | | | | | | | | | | | | | Fully vaccinated / Total (%) | | | | | | | | | | | | | | | Fully vaccinated / Total (%) | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
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| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
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| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
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| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | |
| Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | | Fully vaccinated (D doses) | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|--|---------------------------|---------------------------|
| Reporting period | From: | To: |
| | 2022-02-20 | 2022-02-27 |
| Is Vaccine still believed to be Safe? | | |
| COVID-19 Vaccine Severe reactions | Six-months weekly average | Since May 1, 2021 |
| All ages | 207 | 7,115 |
| < 20 year-old | 14 | |
| Deaths | | |
| Notes: | | |
| * Prior to May 1, 2021 there was less than 3% fully vaccinated | | |
| * Adjusted for the reporting delay | | |
| ** Average reporting delay 4 months. | | |
| Is Vaccine still Efficient? | | |
| Percentage of Fully vaccinated | Last week statistics | Six-months weekly average |
| In COVID-19 deaths | 76.40% | 52% |
| In COVID-19 cases | 83.90% | 62% |
| In Canada (Full vaccination rate) | 80.70% | 75% |
| Percentage of Cases resulting in Deaths | | |
| Average | | 0.78% |
| For Vaccinated with 2 doses | | 0.50% |
| For Vaccinated with 3 doses | | 0.90% |
| For Unvaccinated | | 1.00% |

Last updated: 18 March 2022.
Browse sheets with buttons below for raw data and calculations. [Click HERE to open this spreadsheet in a separate window](#)



| Variation by Age | C-19 vaccine serious events / C-19 deaths | C19 Cases: | Hospitalizations: | Deaths: | Adverse Reaction | Since: | Serious | All |
|------------------|---|-----------------|-------------------|---------|------------------|------------------|---------|-------|
| All ages | 0.6 | | | | | per 100,000 dose | | total |
| | | elderly (70+) | 46% | 82.0% | 18+ | | 11 | 34.7 |
| | | 40-50 | 22% | 6.1% | 12-17 | | 2 | 10 |
| | | 20-40 | 12% | 1.0% | 5-12 | | 3.5 | 4.6 |
| | | children (0-19) | 3% | 0.1% | | | | |

[PHAC1] Cases following vaccination, COVID-19 Daily Epidemiology Update, Public Health Agency of Canada,

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

Archived reports: web.archive.org

<https://github.com/open-canada/vitals/tree/main/docs/COVID-19%20epidemiology%20updates>

Table 2. Characteristics and severe outcomes among unvaccinated, partially vaccinated, fully vaccinated, and fully vaccinated with additional dose confirmed cases reported to PHAC

| | | |
|--|--------|---------|
| | Behind | 4 weeks |
|--|--------|---------|

Statistics is computed counting cases from December 14, 2020 when there were no fully-vaccinated

Figure 7. By Age: totals and percentages since December 14, 2020

| | | |
|--|--------|--------|
| | Behind | 1 week |
|--|--------|--------|

[PHAC2] Reported side effects following COVID-19 vaccination in Canada, Canadian COVID-19 vaccination safety report, Public Health Agency of Canada

Latest report: <https://health-infobase.canada.ca/covid-19/vaccine-safety> (Figure 1, Table 1)

Archived reports: <https://health-infobase.canada.ca/covid-19/vaccine-safety/archive/2021-09-24/index.html>

| | | |
|--|--------|--------|
| | Behind | 1 week |
|--|--------|--------|

| | |
|--|---|
| | Most reports are reported with 3-6 months delay |
|--|---|

Figure 1.

Table 1: Count of reported adverse events of special interest by vaccine type (Total)

Rows marked in yellow (three weeks in May) are used for comparing across reports issued on different dates

Columns in pink (related to Serious events) are used for analysis

Numbers in red are for children and youth (5-11, 12-18)

Related: <https://www.gov.uk/government/publications/coronavirus-covid-19-vaccine-adverse-reactions>

[PHAC0]

<https://health-infobase.canada.ca/covid-19/vaccination-coverage/>

Vaccination rates: Figure 2,

| RECOMPUTED NUMBERS: WEEKLY RESULTS | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------|-----------------------|----------------|--------------------------------|-----------------------|-------------------|--------------------------------|-------|-----------------------------------|------------------|--------------------------------|-----------------------|-------------------|--------------------------------|-------|-----------------------------------|----------------|--------------------------------|-----------------------|-------------------|--------------------------------|-------|-----------------------------------|---------|
| Updated: (click on link to go to pdf) | | As of: | Full vaxed rate | Cases | | | | | | | Hospitalizations | | | | | | | Deaths | | | | | | | Comment |
| | | | | 4. Unvaxe d | 2. Not yet protecte d | 3. Partially vaxed | 1. Fully vaxed | Fully vaxed w. 1 dose | Total | Fully Vaxed in Total (%) | 4. Unvaxe d | 2. Not yet protecte d | 3. Partially vaxed | 1. Fully vaxed | Fully vaxed w. 1 dose | Total | Fully Vaxed in Total (%) | 4. Unvaxe d | 2. Not yet protecte d | 3. Partially vaxed | 1. Fully vaxed | Fully vaxed w. 1 dose | Total | Fully Vaxed in Total (%) | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

[PHAC-2] <https://health-infobase.canada.ca/covid-19/epidemiological-summary-covid-19-cases.html#a7>

Figure 7. Age and gender distribution of COVID-19 cases (Counting since December 2020)

Notes; Counted since Dcember 2020

Age and gender distribution of COVID-19 cases deceased

2022-03-01 2022-03-18 n=36,594 2022-03-25 36,847

| Weekly average | Age group (years) | Number of cases with case reports (percentage) | Number of male cases (percentage) | Number of female cases (percentage) | Number of cases with case reports (percentage) | Number of male cases (percentage) | Number of female cases (percentage) | Number of case | Number of male | Number of fema |
|---|-------------------|--|-----------------------------------|-------------------------------------|--|-----------------------------------|-------------------------------------|----------------|----------------|----------------|
| | 0-11 | 22 (0.1%) | 8 (0.0%) | 14 (0.0%) | 24 (0.1%) | 10 (0.0%) | 14 (0.0%) | 24 (0.1%) | 10 (0.0%) | 14 (0.0%) |
| | 12-19 | 11 (0.0%) | 6 (0.0%) | 5 (0.0%) | 10 (0.0%) | 5 (0.0%) | 5 (0.0%) | 10 (0.0%) | 5 (0.0%) | 5 (0.0%) |
| | 20-29 | 106 (0.3%) | 66 (0.2%) | 40 (0.1%) | 101 (0.3%) | 62 (0.2%) | 39 (0.1%) | 102 (0.3%) | 62 (0.2%) | 40 (0.1%) |
| | 30-39 | 256 (0.7%) | 159 (0.4%) | 97 (0.3%) | 265 (0.7%) | 166 (0.5%) | 99 (0.3%) | 266 (0.7%) | 167 (0.5%) | 99 (0.3%) |
| | 40-49 | 577 (1.6%) | 366 (1.0%) | 211 (0.6%) | 582 (1.6%) | 363 (1.0%) | 219 (0.6%) | 585 (1.6%) | 364 (1.0%) | 221 (0.6%) |
| | 50-59 | 1,599 (4.5%) | 986 (2.8%) | 613 (1.7%) | 1,656 (4.5%) | 1,019 (2.8%) | 637 (1.7%) | 1,674 (4.5%) | 1,029 (2.8%) | 645 (1.8%) |
| | 60-69 | 3,805 (10.7%) | 2,430 (6.8%) | 1,375 (3.8%) | 3,921 (10.7%) | 2,489 (6.8%) | 1,432 (3.9%) | 3,942 (10.7%) | 2,502 (6.8%) | 1,440 (3.9%) |
| | 70-79 | 7,576 (21.2%) | 4,571 (12.8%) | 3,005 (8.4%) | 7,804 (21.3%) | 4,733 (12.9%) | 3,071 (8.4%) | 7,881 (21.4%) | 4,784 (13.0%) | 3,097 (8.4%) |
| | 80+ | 21,768 (60.9%) | 10,052 (28.1%) | 11,716 (32.8%) | 22,231 (60.8%) | 10,318 (28.2%) | 11,913 (32.6%) | 22,363 (60.7%) | 10,388 (28.2%) | 11,975 (32.5%) |
| Age and gender distribution of COVID-19 cases admitted to ICU | | | | | n=23,418 | | | | | |
| | Age group (years) | Number of cases with case reports (percentage) | Number of male cases (percentage) | Number of female cases (percentage) | Number of cases with case reports (percentage) | Number of male cases (percentage) | Number of female cases (percentage) | | | |
| | 0-11 | 261 (1.2%) | 138 (0.6%) | 123 (0.5%) | 298 (1.3%) | 159 (0.7%) | 139 (0.6%) | | | |
| | 12-19 | 161 (0.7%) | 90 (0.4%) | 71 (0.3%) | 171 (0.7%) | 93 (0.4%) | 78 (0.3%) | | | |
| | 20-29 | 699 (3.1%) | 373 (1.6%) | 326 (1.4%) | 719 (3.1%) | 385 (1.6%) | 334 (1.4%) | | | |
| | 30-39 | 1,428 (6.3%) | 826 (3.6%) | 602 (2.7%) | 1,466 (6.3%) | 846 (3.6%) | 620 (2.6%) | | | |
| | 40-49 | 2,363 (10.4%) | 1,455 (6.4%) | 908 (4.0%) | 2,421 (10.3%) | 1,491 (6.4%) | 930 (4.0%) | | | |
| | 50-59 | 4,424 (19.5%) | 2,906 (12.8%) | 1,518 (6.7%) | 4,529 (19.3%) | 2,978 (12.7%) | 1,551 (6.6%) | | | |
| | 60-69 | 5,900 (26.0%) | 3,778 (16.6%) | 2,122 (9.4%) | 6,094 (26.0%) | 3,909 (16.7%) | 2,185 (9.3%) | | | |
| | 70-79 | 5,113 (22.5%) | 3,239 (14.3%) | 1,874 (8.3%) | 5,293 (22.6%) | 3,356 (14.3%) | 1,937 (8.3%) | | | |
| | 80+ | 2,346 (10.3%) | 1,369 (6.0%) | 977 (4.3%) | 2,427 (10.4%) | 1,424 (6.1%) | 1,003 (4.3%) | | | |
| Age and gender distribution of COVID-19 cases hospitalized | | | | | | | | | | |
| | Age group (years) | Number of cases with case reports (percentage) | Number of male cases (percentage) | Number of female cases (percentage) | Number of cases with case reports (percentage) | Number of male cases (percentage) | Number of female cases (percentage) | | | |
| | 0-11 | 2,750 (2.1%) | 1,551 (1.2%) | 1,198 (0.9%) | 3,143 (2.3%) | 1,777 (1.3%) | 1,365 (1.0%) | | | |
| | 12-19 | 1,554 (1.2%) | 671 (0.5%) | 883 (0.7%) | 1,694 (1.2%) | 718 (0.5%) | 976 (0.7%) | | | |
| | 20-29 | 6,346 (4.8%) | 2,396 (1.8%) | 3,949 (3.0%) | 6,665 (4.8%) | 2,503 (1.8%) | 4,161 (3.0%) | | | |
| | 30-39 | 9,994 (7.6%) | 4,235 (3.2%) | 5,759 (4.4%) | 10,448 (7.6%) | 4,364 (3.2%) | 6,084 (4.4%) | | | |
| | 40-49 | 11,385 (8.6%) | 6,463 (4.9%) | 4,922 (3.7%) | 11,824 (8.6%) | 6,684 (4.8%) | 5,140 (3.7%) | | | |
| | 50-59 | 17,469 (13.3%) | 10,467 (8.0%) | 7,002 (5.3%) | 18,059 (13.1%) | 10,799 (7.8%) | 7,260 (5.3%) | | | |
| | 60-69 | 22,593 (17.2%) | 13,310 (10.1%) | 9,283 (7.1%) | 23,632 (17.1%) | 13,917 (10.1%) | 9,715 (7.0%) | | | |
| | 70-79 | 25,588 (19.4%) | 14,465 (11.0%) | 11,123 (8.5%) | 26,902 (19.5%) | 15,241 (11.0%) | 11,661 (8.4%) | | | |

| | | | | | | | | | | | | |
|--|-----|----------------|----------------|----------------|----------------|----------------|----------------|--|--|--|--|--|
| | 80+ | 33,953 (25.8%) | 16,296 (12.4%) | 17,657 (13.4%) | 35,801 (25.9%) | 17,188 (12.4%) | 18,613 (13.5%) | | | | | |
|--|-----|----------------|----------------|----------------|----------------|----------------|----------------|--|--|--|--|--|

Last updated: 11 March 2022

[PHAC1] 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> (Table 2)

Averaged over all ages

| Averaged over all ages | | | Fully vaccinated among Cases - by case outcome | | | | | | Severe outcomes among Cases - by vaccination status | | | | | | |
|------------------------|----------------------|-----------------|--|-----------------|------------------|-----------------|----------|-----------------|---|-------------|----------------------|---------|-------------|----------------------|--|
| Report produced on: | Includes data up to: | Full vaxed rate | All Cases | | Hospitalizations | | Deaths | | Hospitalizations | | | Deaths | | | |
| | | | Reported | Observed weekly | Reported | Observed weekly | Reported | Observed weekly | Unvaxed | Fully vaxed | Risk Unvaxed / Vaxed | Unvaxed | Fully vaxed | Risk Unvaxed / Vaxed | |
| | | | | | | | | | | | | | | | |
| | 2021-05-01 | 2.9% | | | | | | | | | | | | | |
| | 2021-06-05 | 8.0% | | | | | | | | | | | | | |
| | 2021-06-26 | 27.0% | | | | | | | | | | | | | |
| 2021-07-30 | 2021-07-10 | 40.0% | 0.5% | | 0.7% | | 1.2% | | 5.0% | 7.7% | 0.66 | 1.1% | 2.9% | 0.4 | |
| 2021-08-11 | 2021-07-17 | 49.9% | 0.5% | 16% | 0.7% | 16% | 1.2% | 9% | 5.1% | 7.7% | 0.65 | 1.1% | 2.9% | 0.4 | |
| | 2021-08-07 | 61.5% | 0.8% | 13% | 1.0% | 11% | 1.4% | 14% | 5.1% | 6.4% | 0.79 | 1.1% | 2.0% | 0.5 | |
| | 2021-08-14 | 63.4% | 1.1% | 17% | 1.1% | 10% | 1.6% | 20% | 5.1% | 5.5% | 0.93 | 1.1% | 1.7% | 0.6 | |
| | 2021-09-04 | 67.0% | 2.6% | 15% | 2.2% | 11% | 3.0% | 16% | 5.1% | 4.4% | 1.17 | 1.0% | 1.3% | 0.8 | |
| | 2021-09-11 | 68.0% | 3.3% | 27% | 2.7% | 19% | 3.7% | 35% | 5.2% | 4.3% | 1.21 | 1.0% | 1.3% | 0.8 | |
| | 2021-10-02 | 71.0% | 5.4% | 33% | 4.2% | 21% | 5.8% | 30% | 5.3% | 4.2% | 1.27 | 1.1% | 1.2% | 0.9 | |
| | 2021-10-30 | 74.0% | 7.3% | 42% | 5.6% | 28% | 7.9% | 35% | 5.5% | 4.2% | 1.29 | 1.1% | 1.3% | 0.9 | |
| | 2021-11-27 | 76.0% | 9.3% | 55% | 7.1% | 26% | 9.5% | 37% | 5.7% | 4.3% | 1.33 | 1.1% | 1.2% | 0.9 | |
| | 2021-12-04 | 76.0% | 9.9% | 62% | 7.4% | 35% | 9.8% | 38% | 5.7% | 4.2% | 1.36 | 1.1% | 1.1% | 1.0 | |
| | 2021-12-18 | 76.5% | 13.0% | 63% | 8.0% | 37% | 10.2% | 35% | 5.6% | 3.3% | 1.68 | 1.1% | 0.9% | 1.3 | |
| | 2022-01-15 | 77.5% | 39.9% | 90% | 17.1% | 67% | 16.8% | 65% | 5.6% | 1.8% | 3.16 | 1.1% | 0.3% | 3.1 | |
| | 2022-01-22 | 77.9% | 38.8% | 31% | 20.1% | 62% | 19.5% | 66% | 5.0% | 2.0% | 2.50 | 1.0% | 0.4% | 2.5 | |
| 2022-02-22 | 2022-01-30 | 78.7% | 40.4% | 80% | 22.6% | 68% | 21.6% | 65% | 5.1% | 2.2% | 2.31 | 1.0% | 0.4% | 2.4 | |
| 2022-02-25 | 2022-02-06 | 79.4% | 41.5% | 80% | 24.3% | 67% | 23.2% | 68% | 5.1% | 2.3% | 2.19 | 1.0% | 0.4% | 2.3 | |
| 2022-03-04 | 2022-02-13 | 79.9% | 42.2% | 82% | 25.4% | 64% | 24.5% | 67% | 5.2% | 2.4% | 2.12 | 1.0% | 0.5% | 2.2 | |
| 2022-03-11 | 2022-02-14 | 80.4% | 42.7% | 83% | 26.1% | 64% | 25.3% | 65% | 5.2% | 2.5% | 2.10 | 1.0% | 0.5% | 2.2 | |
| 2022-03-18 | 2022-02-15 | 80.7% | 43.2% | 84% | 26.9% | 66% | 25.7% | 76% | 5.2% | 2.5% | 2.06 | 1.0% | 0.5% | 2.2 | |

Notes:

(1) PHAC computes percentages using total number of cases from 2020/12/14, which creates bias, because there was negligible number of fully vaccinated until Spring 2021.

(2) The first report produced by PHAC showing 'cases following vaccination' data was published on 2021/07/30 and showed data for up to 2021/07/10 .

(3) Reported - counting cases since Dec 2020

(4) * Variation by age:

[PHAC2] 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> (Figure 1)

| Variation by Age | C19 Cases: | Hospitalization Deaths: | Adverse Reactions | Serious All |
|------------------|------------|-------------------------|--------------------------------------|-------------|
| | | | Since: doses a per 100,000 doz total | |
| elderly (70+) | 46% | 82.0% | 18+ | 11 34.7 |
| 40-50 | 22% | 6.1% | 12-17 | 2 10 |
| 20-40 | 12% | 1.0% | | |
| children (0-19) | 3% | 0.1% | 5-12 | 3.5 4.6 |

| [PHAC-2] Reported side effects following COVID-19 vaccination in Canada, Serious C-19 vaccine reactions. Severe effects | | | | | | | | | | | | | | | | | | |
|---|--|--------|-------|--|--|--------|-------|--|--------|-------|--|-------------------------|---|---|--|---|-------------|-----------------------|
| | 5-11 | | | | 12-17 | | | All | | | | | | | | | | |
| | weekly rate per 100,000 doses | weekly | total | | weekly rate per 100,000 doses | weekly | total | weekly rate per 100,000 doses | Weekly | Total | C-19 deaths / C-19 vaccine serious events (%) | Auto-immune diseases | <u>Cardiovascular (inc.myocarditis, cardiac failure, cardiac arrests, heart attack)</u> | Circulatory system (Thrombosis, embolisms) | Hepato- gastrointestinal and renal system | Central nervous system (Bell's Palsy,strokes) | Anaphylaxis | Pregnancy outcomes |
| up to and including | | | | | | | 5 | | | 1200 | | | | | | | | |
| 2021-05-01 | | | | | | | | | | 1200 | | | | | | | | |
| 2021-06-05 | | | | | | | | | 178 | 2090 | | | | | | | | |
| 2021-06-26 | | | | | | | | | 390 | 3260 | | | | | | | | |
| 2021-07-10 | | | | | | | | | 139 | 3537 | | | | | | | | |
| 2021-07-17 | | | | | | | | | 19 | 3556 | 49.5% | | | | | | | |
| 2021-08-07 | | | | | | | | | 219 | 4213 | 57.8% | | | | | | | |
| 2021-08-14 | | | | | | | | | 229 | 4442 | 60.3% | | | | | | | |
| 2021-09-04 | | | | | | | | | 200 | 5043 | 61.8% | | | | | | | |
| 2021-09-11 | | | | | | | | | 190 | 5233 | 62.7% | | | | | | | |
| 2021-10-02 | | | | | | | | | 148 | 5676 | 62.8% | | | | | | | |
| 2021-10-30 | | | NA | | | | | | 145 | 6255 | 64.0% | | | | | | | |
| 2021-11-27 | | | 4 | | | | | | 143 | 6,825 | 66.1% | | | | | | | |
| 2021-12-04 | | | | | | | | | 107 | 6,932 | 66.5% | | | | | | | |
| 2021-12-18 | | | | | | | | | 100 | 7,132 | 67.3% | | | | | | | |
| 2022-01-15 | | | | | | | | | 84 | 7,466 | 61.9% | | | | | | | |
| 2022-01-22 | | | | | | | | | 122 | 7,588 | 59.4% | | | | | | | |
| 2022-01-30 | | | | | | | | | 135 | 7,742 | 57.8% | | | | | | | |
| 2022-02-06 | | | | | | | | | 135 | 7,877 | 56.8% | | | | | | | |
| 2022-02-11 | | | 42 | | | | | | | 7,999 | 56.0% | 456 | 1,965 | 1,253 | | 1,031 | 774 | 75 |
| 2022-02-18 | 3.48 | 6 | 48 | | 2.08 | 1 | 316 | 11.01 | 88 | 8,203 | 56.3% | 371 | 1,995 | 1,261 | 111 | 1,043 | 784 | |

[illegible]

* Predicted using the currently empirically observed difference between the numbers reported in the past and the numbers reported today for the same week in the past

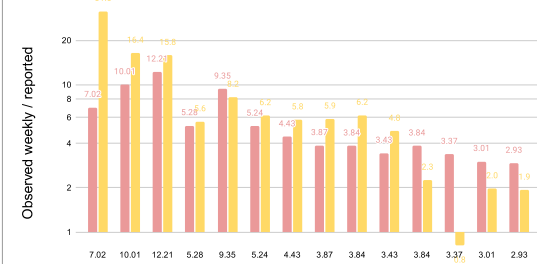
E.g. compare numbers (highlighted in yellow) reported for May in this "Side Effects 2022-02-05" sheet to those reported in adjacent "Side Effects 2021-05-25" sheet

| Week report received | Weekly non-serious reports | Weekly serious reports | Cumulative non-serious reports | Cumulative serious reports | Cumulative number of doses administered | Weekly number of doses administered | Weekly non-serious report rate* | Weekly serious report rate* | Weekly report rate* |
|----------------------|----------------------------|------------------------|--------------------------------|----------------------------|---|-------------------------------------|---------------------------------|-----------------------------|---------------------|
| 2021-05-21 | 79 | 139 | 4,863 | 1,126 | 20,328,984 | 2,594,662 | 3.04 | 5.36 | 8.4 |
| 2021-05-14 | 201 | 98 | 4,784 | 987 | 17,734,322 | 2,409,139 | 8.34 | 4.07 | 12.41 |
| 2021-05-07 | 264 | 126 | 4,583 | 889 | 15,325,183 | 1,904,985 | 13.86 | 6.61 | 20.47 |
| 2021-04-30 | 290 | 130 | 4,319 | 763 | 13,420,198 | 1,893,260 | 15.32 | 6.87 | 22.18 |
| 2021-04-23 | 398 | 87 | 4,029 | 633 | 11,526,938 | 2,001,206 | 19.89 | 4.35 | 24.24 |
| 2021-04-16 | 493 | 66 | 3,631 | 546 | 9,525,732 | 1,956,411 | 25.2 | 3.37 | 28.57 |
| 2021-04-09 | 253 | | | | | | | 2.69 | 17.82 |
| 2021-04-02 | 356 | | | | | | | 3.83 | 36.3 |
| 2021-03-26 | 238 | | | | | | | 5.97 | 28.18 |
| 2021-03-19 | 266 | | | | | | | 2.34 | 31.92 |
| 2021-03-12 | 240 | | | | | | | 10.43 | 52.17 |
| 2021-03-05 | 270 | | | | | | | 5.24 | 61.87 |
| 2021-02-26 | 202 | | | | | | | 9.04 | 62.72 |
| 2021-02-19 | 501 | | | | | | | 17.72 | 295.13 |
| 2021-02-12 | 178 | | | | | | | 27.88 | 127.11 |
| 2021-02-05 | 251 | 25 | 634 | 107 | 1,042,171 | 104,833 | 239.43 | 23.85 | 263.28 |
| 2021-01-29 | 207 | 26 | 383 | 82 | 937,338 | 184,090 | 112.44 | 14.12 | 126.57 |
| 2021-01-22 | 115 | 28 | 176 | 56 | 753,248 | 151,347 | 75.98 | 18.5 | 94.48 |
| 2021-01-15 | 46 | 18 | 61 | 28 | 601,901 | 263,478 | 17.46 | 6.83 | 24.29 |
| 2021-01-08 | 10 | 6 | 15 | 10 | 338,423 | 223,351 | 4.48 | 2.69 | 7.16 |
| 2021-01-01 | 5 | 4 | 5 | 4 | 115,072 | 115,072 | 4.35 | 3.48 | 7.82 |
| | | | | | | | | | |
| | | Total | | | | | | Average | |
| | | 363 | | | | | | 5.35 | |
| | | | | | | | | | |
| | | | | | | | | | |



Bias factor in PHAC 'Cases following vaccination' reports published in PHAC

Measured as Ratio between weekly observed and reported 'Fully vaccinated' percentages



| Bias factor | | |
|-------------|-------|--------|
| Cases | Hosp | Deaths |
| 31.5 | 21.82 | 7.02 |
| 16.4 | 11.29 | 10.01 |
| 15.8 | 8.35 | 12.21 |
| 5.6 | 4.91 | 5.28 |
| 8.2 | 7.00 | 9.35 |
| 6.2 | 4.93 | 5.24 |
| 5.8 | 4.96 | 4.43 |
| 5.9 | 3.68 | 3.87 |
| 6.2 | 4.78 | 3.84 |
| 4.8 | 4.68 | 3.43 |
| 2.3 | 3.90 | 3.84 |
| 0.8 | 3.10 | 3.37 |
| 2.0 | 2.99 | 3.01 |
| 1.9 | 2.75 | 2.93 |
| 1.9 | 2.64 | 2.73 |

Reported in February 2022



Reported in May 2021

