

SURVEILLANCE REPORT

COVID-19 Vaccine Uptake in Ontario: December 14, 2020 to April 17, 2021

This report describes vaccine uptake using data extracted from the Ontario Ministry of Health's COVaxON application. Data in this report includes the most current information extracted from COVaxON as of April 19, 2021 at approximately 9:00 a.m., and describes immunizations reported up to April 17, 2021.

Data presented may differ from other sources for various reasons, including differing extract times and methodologies for processing COVaxON data. Further details pertaining to the methodology for this report are described in the Technical Notes.

Background

The COVID-19 immunization program began in Ontario with a [three-phased distribution plan](#).¹ Phase 1 began on December 14, 2020 with a limited number of doses for Ontario's most vulnerable populations including residents, staff and essential care givers in long-term care (LTCH) and retirement homes (RH), health care workers (HCW), and indigenous adults in northern remote and higher risk communities (on-reserve and urban). Over time the program has expanded to include additional priority populations.

With limited exceptions, Ontario has implemented a delayed second dose interval, as recommended by the National Advisory Committee on Immunization (NACI)², in order to maximize the number of individuals receiving protection from the first dose of a COVID-19 vaccine.

Highlights

- A total of 3,493,866 individuals or 23.5% of the Ontario population, and 3,484,493 or 28.8% of adults 18 years of age and older, have received at least one dose of a COVID-19 vaccine.
 - 3,148,080 individuals or 21.2% of the Ontario population have initiated the series and received only one dose.
 - 345,786 individuals or 2.3% of the Ontario population have completed the series and received both the first and second dose.
- Coverage estimates are highest among individuals 80 years of age and over. An estimated 81.6% of adults 80 years of age and over have received at least one dose of the vaccine series and 14.5% have completed the series (i.e. have received both dose one and dose two).

- An estimated 58.6% of adults 60 to 79 years of age have received at least one dose of the vaccine series and 2.4% have completed the series (i.e. have received both dose one and dose two).
- Confirmed COVID-19 cases have decreased in some populations targeted for vaccination, including LTCH residents and staff and HCWs.

Definition of Terms

Vaccine series refers to the number of vaccine doses within a schedule that has been approved by Health Canada. All COVID-19 vaccine products available in Ontario have a two dose schedule.

Interval refers to the period of time (e.g. number of days) between doses. For all available COVID-19 vaccines, there is a recommended minimum number of days that an individual must wait after receiving their first dose and before receiving their second dose.

Series initiation refers to individuals that have received only the first dose of a vaccine series.

Series completion refers to individuals that have received both doses of the vaccine series (e.g. dose one and dose two).

Coverage estimate for series initiation refers to the proportion of the population assessed that has received only the first dose of a vaccine series.

Coverage estimate for series completion refers to the proportion of the population that has received both doses of the vaccine series (e.g. dose one and dose two).

Coverage estimate for at least one dose refers to the proportion of the population that have received at least one dose of a COVID-19 vaccine series (i.e. those who have received dose one only in addition to those who have received both doses in the series).

Doses Administered Over Time

Figure 1a. Number of COVID-19 vaccine doses administered by dose number and date

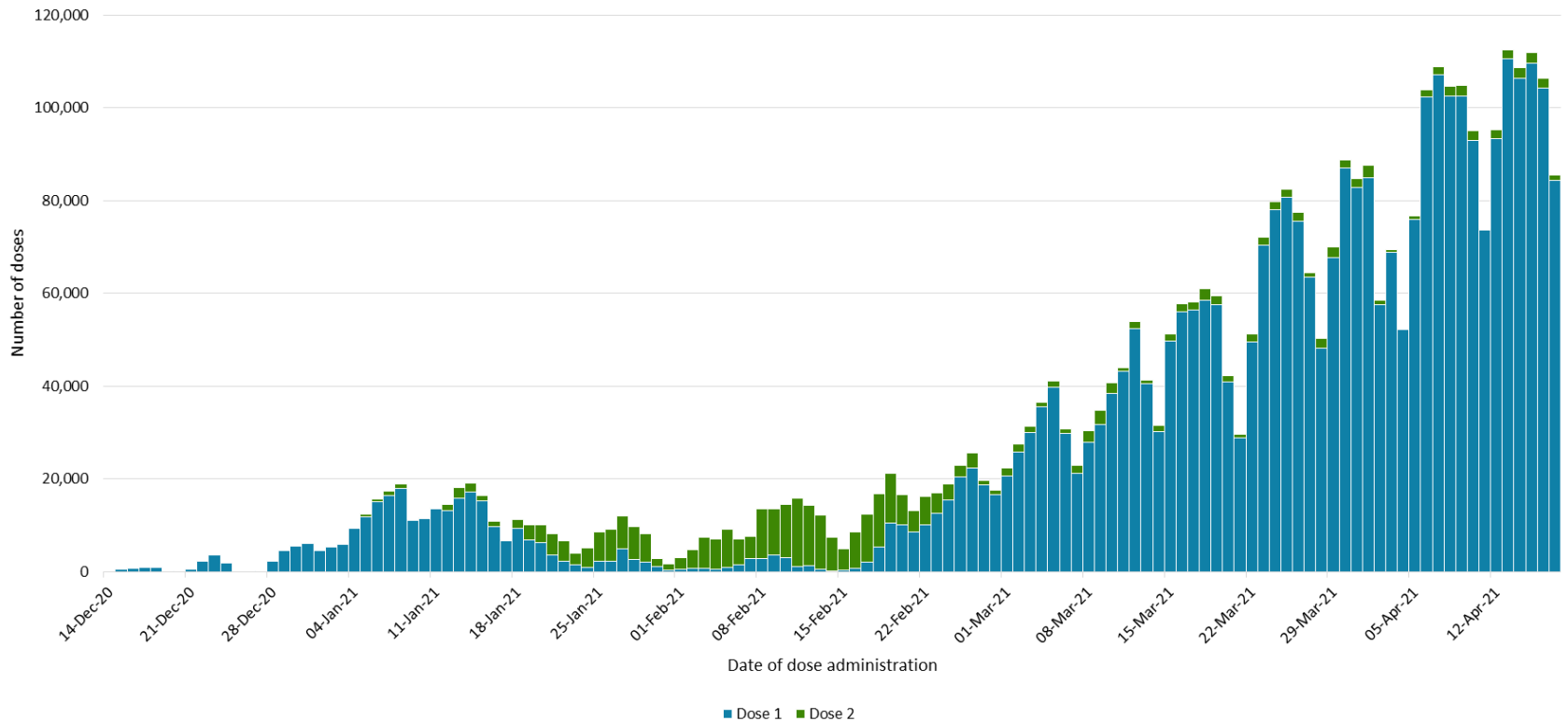
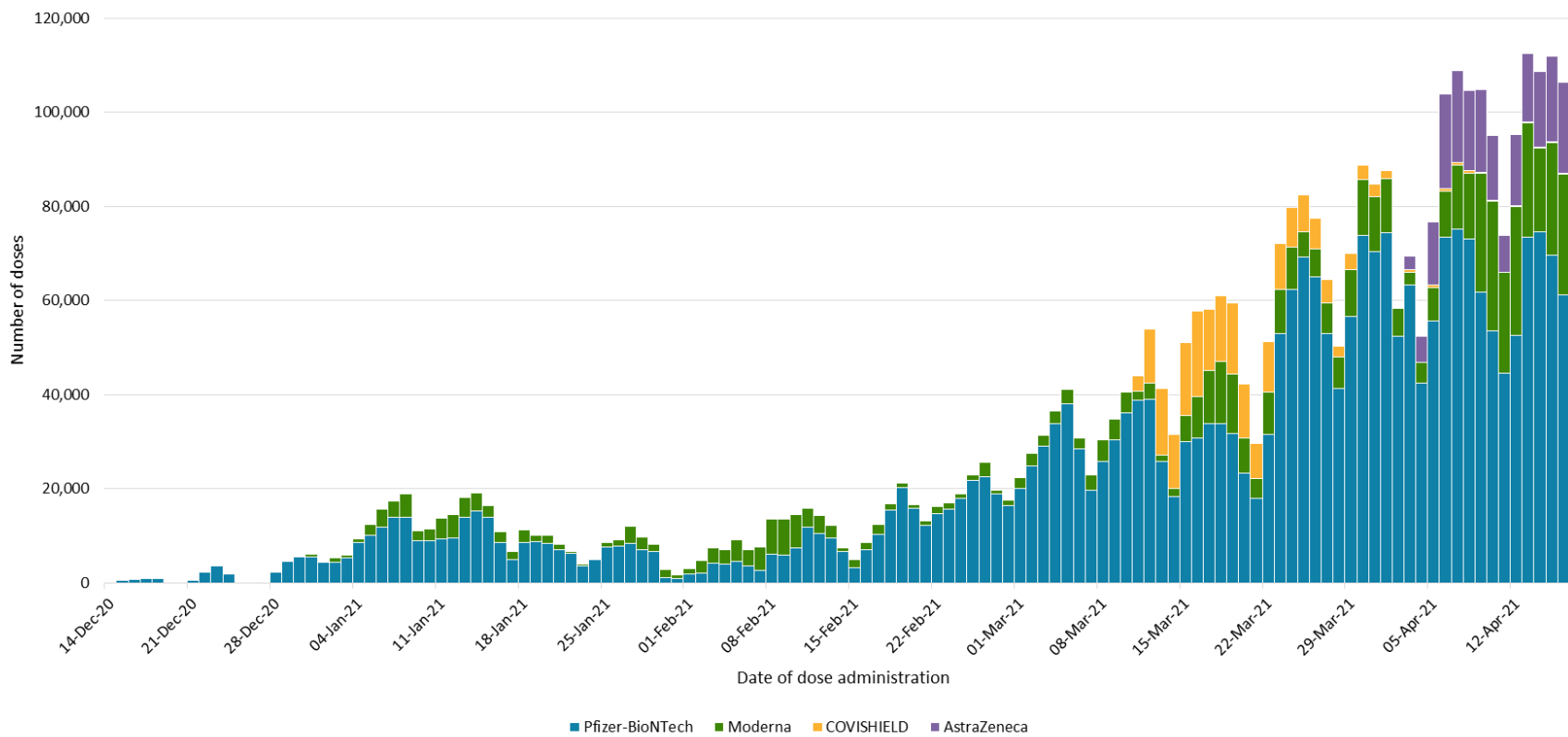
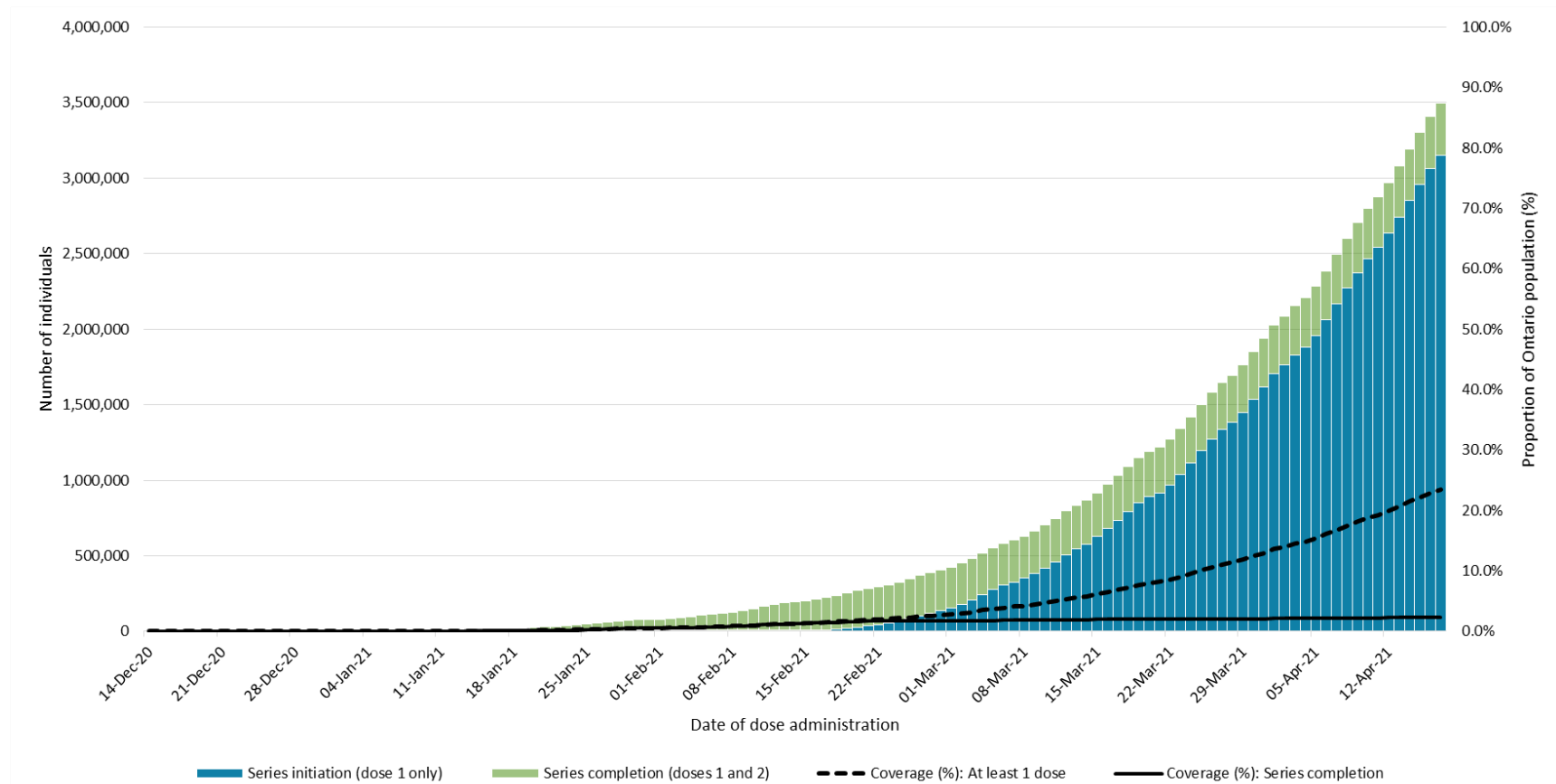


Figure 1b. Number of COVID-19 vaccine doses administered by vaccine product and date



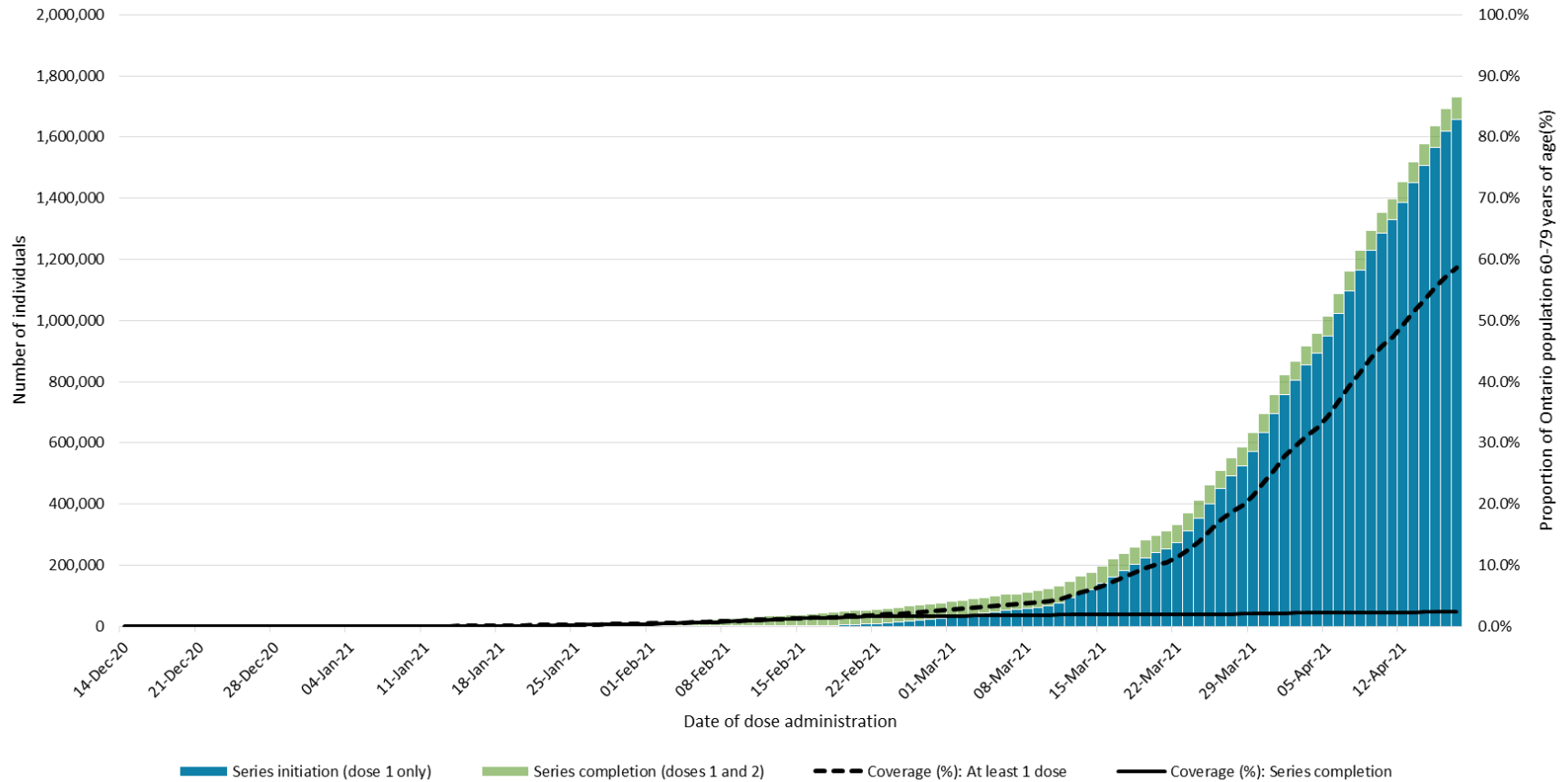
Immunization Coverage over Time

Figure 2. Cumulative number of individuals who received a COVID-19 vaccine and provincial coverage estimates by administration date*



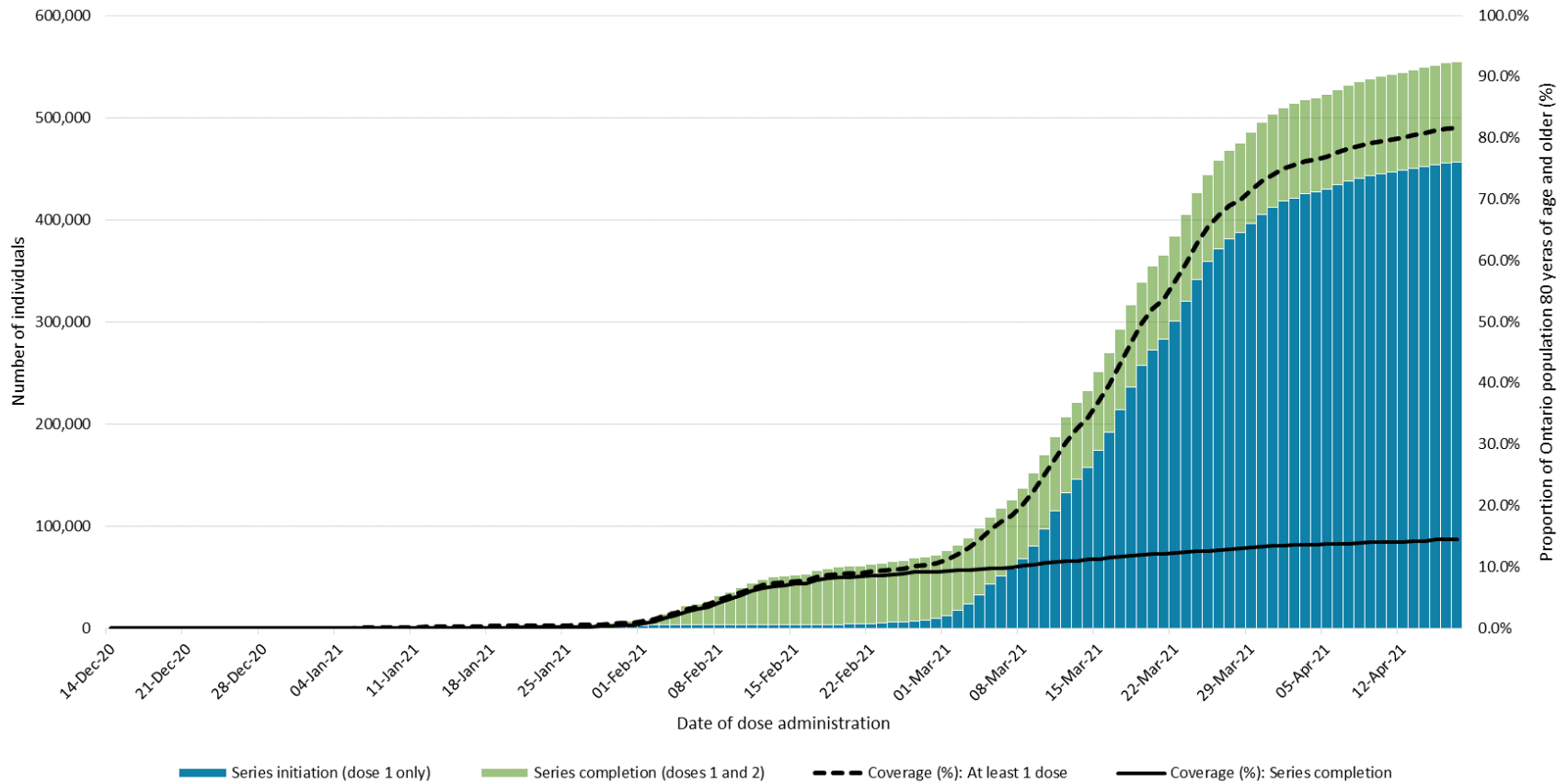
*Counts are shown using the date of dose one administration for individuals that have received only one dose and the date of dose two administration for individuals that have received both doses.

Figure 3a. Cumulative number of individuals who received a COVID-19 vaccine and coverage estimates by administration date* among individuals 60 to 79 years of age



*Counts are shown using the date of dose one administration for individuals that have received only one dose and the date of dose two administration for individuals that have received both doses.

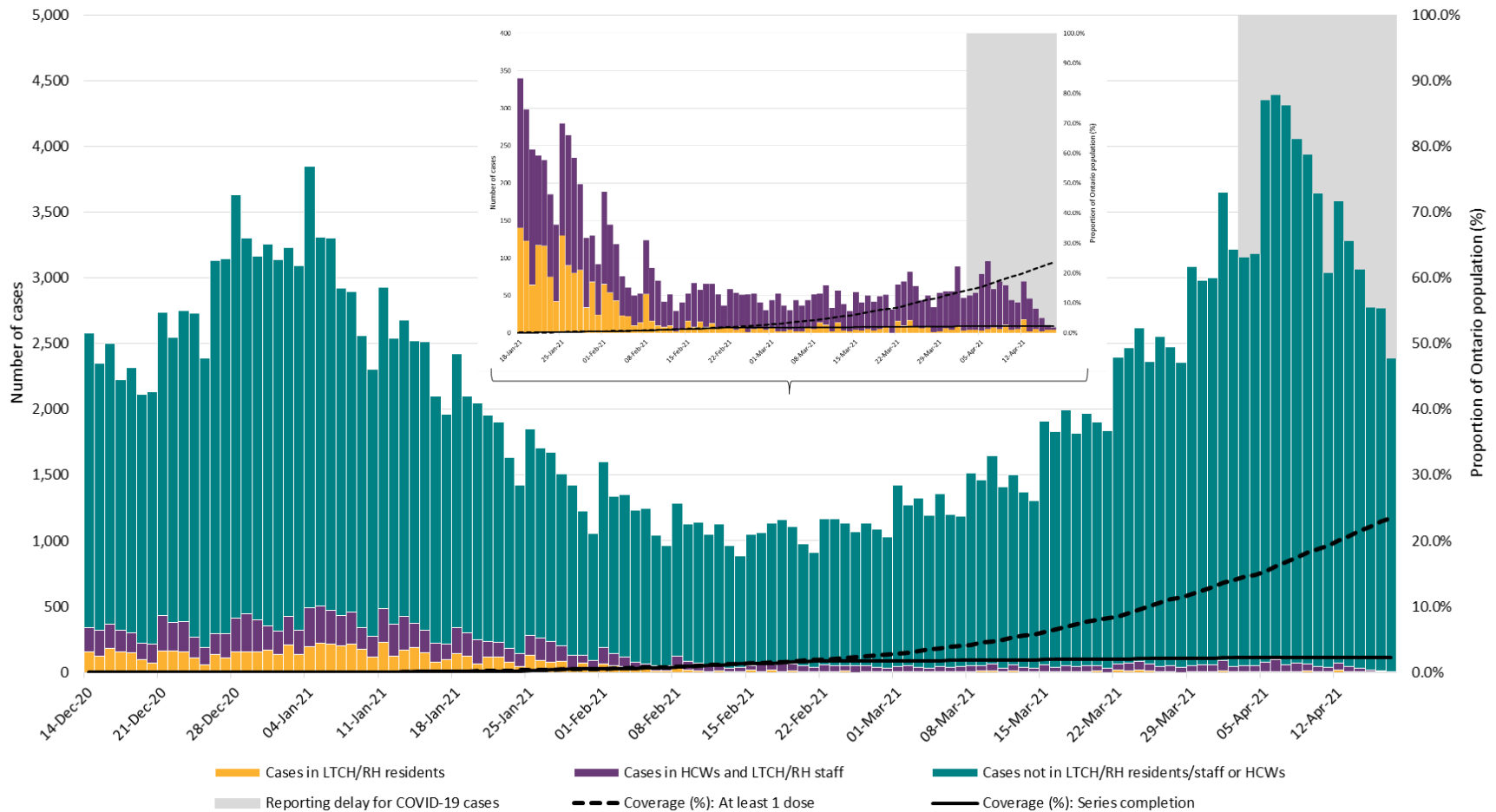
Figure 3b. Cumulative number of individuals who received a COVID-19 vaccine and coverage estimates by administration date* among individuals 80 years of age and older



*Counts are shown using the date of dose one administration for individuals that have received only one dose and the date of dose two administration for individuals that have received both doses.

Immunization Coverage and COVID-19 Cases over Time

Figure 4. Number of confirmed COVID-19 cases and provincial coverage estimates* by date**

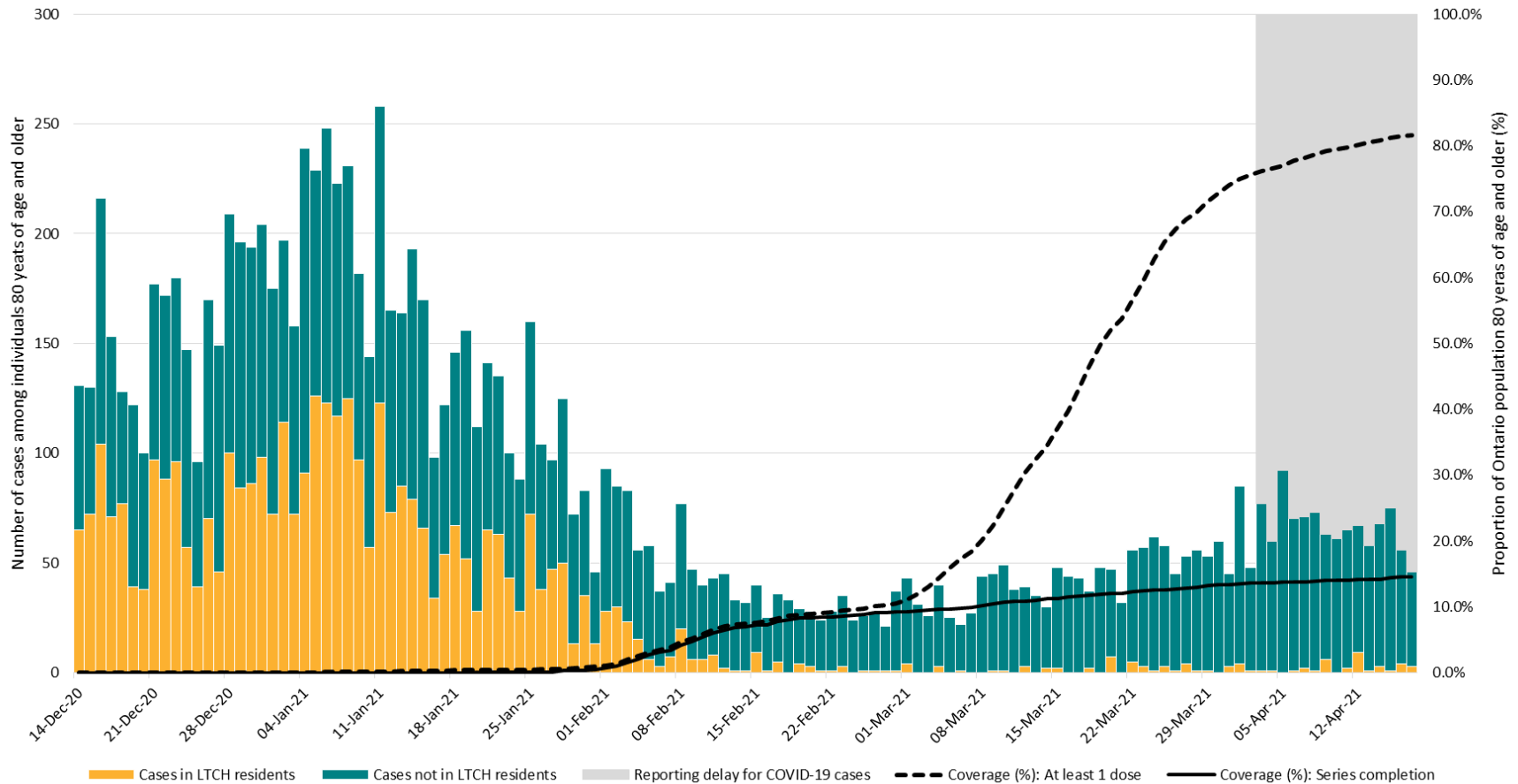


*Coverage estimates show the proportion of the total Ontario population that has been vaccinated.

**Confirmed COVID-19 cases are shown using the episode date, an estimate of disease onset. Coverage estimates are shown using the date of dose one administration for individuals that have received only one dose and the date of dose two administration for individuals that have received both doses.

Note: Interpret COVID-19 case counts for the most recent days with caution due to reporting lags. The light grey shading indicates the most recent period during which case counts are likely to be updated.

Figure 5. Number of confirmed COVID-19 cases and provincial coverage estimates* by date among individuals 80 years of age and older**



*Coverage estimates show the proportion of the Ontario population 80 years of age and older that have been vaccinated.

**Confirmed COVID-19 cases are shown using the episode date, an estimate of disease onset. Coverage estimates are shown using the date of dose one administration for individuals that have received only one dose and the date of dose two administration for individuals that have received both doses.

Note: Interpret COVID-19 case counts for the most recent days with caution due to reporting lags. The light grey shading indicates the most recent period during which case counts are likely to be updated.

Immunization Coverage by Priority Population

Table 1. Number of individuals who received a COVID-19 vaccine by priority population: Ontario, December 14, 2020 to April 17, 2021

Priority Population*	Number of individuals: Series initiation (dose 1 only)	Number of individuals: Series completion (doses 1 and 2)
Long-term care home (LTCH)		
Residents	6,446	64,163
Health care workers (HCW)	25,459	48,803
Retirement home (RH)		
Residents	8,167	54,569
HCWs	7,801	15,366
LTCH/RH other employees/essential caregivers	63,960	23,504
HCWs (not in LTCH/RH)	411,464	104,628
Congregate setting (not LTCH/RH) staff/residents	25,845	893
Adult recipients of chronic home care	60,863	4,617
Age-based eligibility	1,594,584	6,012
Adults with high risk condition and their caregivers	28,931	300
Community at greater risk	44,735	24
Education worker	21,510	3
Agricultural/farm/food manufacturing worker	4,330	0
Other priority populations	843,532	22,895
Not reported	453	9
Total	3,148,080	345,786

*Priority population groupings are further described in the Technical Notes.

Note: Priority population grouping are not mutually exclusive. Individuals may fall into multiple different priority population groupings, however, only one grouping is selected at the time of immunization. As a result, reported counts for specific priority populations should be interpreted with caution.

Immunization Coverage by Age Group and Gender

Table 2. Number of individuals who received a COVID-19 vaccine and coverage estimates by gender or age group: Ontario, December 14, 2020 to April 17, 2021

	Number of individuals: Series initiation (dose 1 only)	Number of individuals: Series completion (doses 1 and 2)	Coverage (%): At least one dose (dose 1 only and doses 1 and 2)	Coverage (%): Series completion (doses 1 and 2)
Gender				
Female	1,770,308	241,948	26.7	3.2
Male	1,367,802	100,333	20.1	1.4
Age in years				
12 to 17⁺	4,704	848	0.6	0.1
18 to 29	160,196	34,190	7.9	1.4
30 to 39	178,231	40,768	10.7	2.0
40 to 49	205,742	44,287	13.3	2.4
50 to 59	481,732	54,035	26.0	2.6
60 to 64	417,645	25,143	45.3	2.6
65 to 69	398,196	16,820	50.7	2.1
70 to 74	484,953	14,628	72.6	2.1
75 to 79	357,742	15,613	79.2	3.3
80 and over	456,163	98,409	81.6	14.5
Total*	3,148,080	345,786	23.5	2.3

*The majority of individuals in this age group were 16 to 17 years of age and were reported to be HCWs in LTCHs/RHs.

*Provincial totals include individuals with unknown age and/or gender. Further detail is provided in the Technical Note: For the purposes of this report, age was calculated on the date of dose administration. However, immunization program eligibility for older adults is based on birth year. For example, individuals turning 80 in 2021 are eligible, regardless of whether they are 80 years of age at the time of immunization.

Table 3. Number of doses administered by product type and age: Ontario, December 14, 2020 to April 17, 2021

Age in years	Number of doses of Pfizer-BioNTech: Dose 1	Number of doses of Pfizer-BioNTech: Dose 2	Number of doses of Moderna: Dose 1	Number of doses of Moderna: Dose 2	Number of doses of COVISHIELD: Dose 1	Number of doses of COVISHIELD: Dose 2	Number of doses of AstraZeneca: Dose 1	Number of doses of AstraZeneca: Dose 2	Total: Dose 1	Total: Dose 2
12 to 17⁺	5,552	848	0	0	0	0	0	0	5,552	848
18 to 29	165,437	31,504	28,850	2,686	59	0	40	0	194,386	34,190
30 to 39	185,331	37,547	33,519	3,220	98	0	51	1	218,999	40,768
40 to 49	203,931	39,865	45,818	4,422	142	0	138	0	250,029	44,287
50 to 59	308,054	46,692	84,765	7,304	19,102	5	123,846	34	535,767	54,035
60 to 64	213,012	19,973	51,542	4,739	132,993	73	45,241	358	442,788	25,143
65 to 69	292,821	12,526	60,214	4,256	29,827	3	32,154	35	415,016	16,820
70 to 74	403,435	9,428	73,283	5,186	14,566	0	8,297	14	499,581	14,628
75 to 79	318,506	9,057	48,156	6,552	3,785	0	2,908	4	373,355	15,613
80 and over	441,604	52,956	110,867	45,453	504	0	1,597	0	554,572	98,409
Total*	2,540,591	261,261	537,729	83,998	201,186	81	214,360	446	3,493,866	345,786

*The majority of individuals in this age group were 16 to 17 years of age and were reported to be HCWs in LTCHs/RHs.

*Provincial totals include individuals with unknown age. Further detail is provided in the Technical Notes.

Note: For the purposes of this report, age was calculated on the date of dose administration. However, immunization program eligibility for older adults is based on birth year. For example, individuals turning 80 in 2021 are eligible, regardless of whether they are 80 years of age at the time of immunization.

Immunization Coverage by Public Health Unit

Table 4. Number of individuals who received a COVID-19 vaccine and coverage estimates by public health unit: Ontario, December 14, 2020 to April 17, 2021

Public Health Unit (PHU)	Number of individuals by PHU of residence:	Number of individuals by PHU of residence:	Coverage (%) by PHU of residence:	Coverage (%) by PHU of residence:	Number of doses by PHU of dose administration**:	Number of doses by PHU of dose administration**:	Number of doses by PHU of dose administration**:
	Series initiation (dose 1 only)	Series completion (doses 1 and 2)	At least one dose (dose 1 only and doses 1 and 2)	Series completion (doses 1 and 2)			
Algoma Public Health	26,062	2,723	25.2	2.4	30,367	2,844	33,211
Brant County Health Unit	31,821	4,413	23.3	2.8	36,445	4,138	40,583
Chatham-Kent Public Health	27,344	1,734	27.4	1.6	28,935	1,478	30,413
City of Hamilton Public Health Services	116,850	16,260	22.5	2.7	133,129	18,049	151,178
Durham Region Health Department	148,536	16,424	23.2	2.3	152,311	14,744	167,055
Eastern Ontario Health Unit	37,994	4,569	20.4	2.2	39,673	4,130	43,803

Public Health Unit (PHU)	Number of individuals by PHU of residence: Series initiation (dose 1 only)	Number of individuals by PHU of residence: Series completion (doses 1 and 2)	Coverage (%) by PHU of residence: At least one dose (dose 1 only and doses 1 and 2)	Coverage (%) by PHU of residence: Series completion (doses 1 and 2)	Number of doses by PHU of dose administration**: Dose 1	Number of doses by PHU of dose administration**: Dose 2	Number of doses by PHU of dose administration**: Total doses (doses 1 and 2)
Grey Bruce Health Unit	39,227	5,328	26.2	3.1	41,847	5,430	47,277
Haldimand-Norfolk Health Unit	25,624	2,379	24.5	2.1	27,621	1,894	29,515
Haliburton, Kawartha, Pine Ridge District Health Unit	49,277	3,393	27.9	1.8	44,222	2,579	46,801
Halton Region Public Health	117,249	15,475	21.4	2.5	125,705	15,347	141,052
Hastings Prince Edward Public Health	35,116	2,266	22.2	1.3	40,068	1,705	41,773
Huron Perth Public Health	30,078	4,186	24.5	3.0	33,103	2,472	35,575
Kingston, Frontenac and Lennox & Addington Public Health	59,686	3,340	29.6	1.6	75,073	4,363	79,436

Public Health Unit (PHU)	Number of individuals by PHU of residence: Series initiation (dose 1 only)	Number of individuals by PHU of residence: Series completion (doses 1 and 2)	Coverage (%) by PHU of residence: At least one dose (dose 1 only and doses 1 and 2)	Coverage (%) by PHU of residence: Series completion (doses 1 and 2)	Number of doses by PHU of dose administration**: Dose 1	Number of doses by PHU of dose administration**: Dose 2	Number of doses by PHU of dose administration**: Total doses (doses 1 and 2)
Lambton Public Health	34,943	1,919	28.1	1.5	36,458	1,780	38,238
Leeds, Grenville & Lanark District Health Unit	38,873	3,460	24.4	2.0	35,944	2,651	38,595
Middlesex-London Health Unit	83,754	11,999	18.9	2.4	109,528	15,733	125,261
Niagara Region Public Health	112,263	9,344	25.7	2.0	118,086	8,325	126,411
North Bay Parry Sound District Health Unit	29,421	1,913	24.1	1.5	30,084	1,677	31,761
Northwestern Health Unit	18,707	979	22.5	1.1	19,838	1,017	20,855
Ottawa Public Health	196,975	25,251	21.1	2.4	233,337	28,385	261,722
Peel Public Health	297,989	22,425	20.0	1.4	335,902	25,051	360,953

Public Health Unit (PHU)	Number of individuals by PHU of residence: Series initiation (dose 1 only)	Number of individuals by PHU of residence: Series completion (doses 1 and 2)	Coverage (%) by PHU of residence: At least one dose (dose 1 only and doses 1 and 2)	Coverage (%) by PHU of residence: Series completion (doses 1 and 2)	Number of doses by PHU of dose administration**: Dose 1	Number of doses by PHU of dose administration**: Dose 2	Number of doses by PHU of dose administration**: Total doses (doses 1 and 2)
Peterborough Public Health	39,554	3,617	29.2	2.4	43,781	3,559	47,340
Porcupine Health Unit	20,427	997	25.7	1.2	21,539	969	22,508
Public Health Sudbury & Districts	48,075	3,900	26.1	2.0	55,723	4,113	59,836
Region of Waterloo Public Health and Emergency Services	109,882	15,045	21.4	2.6	129,596	15,787	145,383
Renfrew County and District Health Unit	22,000	1,907	22.0	1.8	24,171	1,799	25,970
Simcoe Muskoka District Health Unit	118,308	19,792	23.0	3.3	134,273	18,252	152,525
Southwestern Public Health	38,118	4,160	20.0	2.0	30,158	2,071	32,229

Public Health Unit (PHU)	Number of individuals by PHU of residence: Series initiation (dose 1 only)	Number of individuals by PHU of residence: Series completion (doses 1 and 2)	Coverage (%) by PHU of residence: At least one dose (dose 1 only and doses 1 and 2)	Coverage (%) by PHU of residence: Series completion (doses 1 and 2)	Number of doses by PHU of dose administration**: Dose 1	Number of doses by PHU of dose administration**: Dose 2	Number of doses by PHU of dose administration**: Total doses (doses 1 and 2)
Thunder Bay District Health Unit	40,228	5,677	30.6	3.8	48,345	5,976	54,321
Timiskaming Health Unit	10,133	529	32.6	1.6	10,752	532	11,284
Toronto Public Health	634,592	68,821	22.5	2.2	815,115	84,578	899,693
Wellington-Dufferin-Guelph Public Health	64,054	7,638	23.0	2.4	71,857	6,878	78,735
Windsor-Essex County Health Unit	106,225	13,109	28.1	3.1	125,689	13,682	139,371
York Region Public Health	262,686	23,213	23.3	1.9	254,023	23,792	277,815
Not reported*	76,009	17,601	N/A	N/A	1,168	6	1,174
Ontario	3,148,080	345,786	23.5	2.3	3,493,866	345,786	3,839,652

*Individuals could not be assigned to a public health unit (PHU). This includes individuals where the postal code or public health unit were not reported as well a small number of individuals with a residential postal code outside of Ontario who may be eligible for immunization on the basis of working in a high-risk setting (i.e. LTCH) in Ontario.

**The PHU of dose administration is the PHU in which the vaccination was administered, and may differ from the PHU of residence of the individual who was vaccinated. Further, in some instances, individuals may have received their first dose in one PHU and their second dose in another PHU.

Technical Notes

Data Sources

- COVID-19 immunization data were based on information successfully extracted from the Ontario Ministry of Health's COVaxON application as of **April 19, 2021 at approximately 9:00 a.m.**
- COVID-19 case data were based on information successfully extracted from the Public Health Case and Contact Management Solution (CCM) for all PHUs by PHO as of **April 19, 2021 at 1 p.m.**
- Ontario population projection data for 2020 were sourced from Ministry, IntelliHEALTH Ontario. Data were extracted on November 26, 2019.

Data Caveats

- COVaxON and CCM are dynamic reporting systems, which allow ongoing updates to data previously entered. As a result, data extracted from COVaxON and CCM represent a snapshot at the time of extraction and may differ from previous or subsequent reports.
- The data represent immunization and case information reported and recorded in COVaxON or CCM. As a result, all counts may be subject to varying degrees of underreporting due to a variety of factors.
- Only cases meeting the confirmed case classification as listed in the MOH [COVID-19 case definition](#) are included.³This includes persons with a positive detection of serum/plasma immunoglobulin G (IgG) antibodies to SARS-CoV-2, which was added to the confirmed case definition on August 6, 2020.
- Priority population groupings are not mutually exclusive. Immunized individuals may fall into multiple different priority population groupings, however, only one grouping is selected at the time of immunization. For example, an education worker could also be eligible for vaccine because they provide care for someone with a high risk medical condition, however, only one of the two groupings is selected at the time of immunization. As a result, reported counts for priority populations should be interpreted with caution.

Methods: Immunization Data

- Data presented may differ from other sources for various reasons, including differing extract times and methodologies for processing COVaxON data. Further details pertaining to the methodology for this report are described below.
- Data includes clients with a dose administration record recorded in COVaxON which includes a small number of client records with a residential postal code outside of Ontario who may be eligible for immunization on the basis of working in a high-risk setting (i.e. LTCH) in Ontario.
- For missing dose administration dates and dose administration dates prior to December 14, 2020, the date the administration record was created was used as a proxy. It is possible that dose administration records could be created in advance of dose administration, and thus this may not reflect the true dose administration date.

- Dose administration date was used to determine the dose number (e.g. the first chronological dose was considered dose 1) as well as the dose interval (number of days from first to second dose).
- Non-valid client records were excluded. Non-valid records included clients where the status was reported as 'entered in error', 'invalid', or other similar variations, as well as clients where the status was valid (e.g. 'administered') but that were identified as non-valid client records (e.g. client first and last name were reported as 'test', 'do not use', 'error', 'ignore', or other similar variations).
- Clients with duplicate dose administration records were excluded (i.e. clients with multiple dose administration records with the same date). Clients with duplicate dose records were identified and excluded using personal identifiers, such as health card number, name, date of birth, and postal code, where available, as well as dose administration date.
 - After removing clients with duplicate dose administration records, dose 1 and dose 2 were assigned based on the dose administration dates reported. For example, for clients with the same name, date of birth, and postal code, and two dose records on different dates, the first chronological dose was considered dose 1 and the second dose was considered dose 2.
 - For clients with three or more doses reported with different administration dates, the first chronological dose was considered the first dose. To determine a date for the second dose, the first subsequent date on or after the product-specific recommended minimum interval was used. If all subsequent doses were before the product-specific recommended minimum interval, the date closest to the recommended minimum interval was used. For example, if there were two subsequent Moderna doses that were 7 days and 21 days from the first dose, respectively, then the dose that was 21 days from the first dose was used as the second dose. Similarly, if there were two subsequent doses that were 10 days and 12 days from the first dose, respectively, then the dose that was 12 days from the first dose was used as the second dose. However, in this example the second dose would later be excluded (see below). The recommended product specific minimum intervals as outlined by the National Advisory Committee on Immunization (NACI) are as follows:
 - Pfizer-BioNTech: 19 days.² There is currently no maximum interval for second doses (i.e. no recommendation to restart a vaccine series regardless of the length of delay of the second dose).
 - Moderna: 21 days.² There is currently no maximum interval for second doses (i.e. no recommendation to restart a vaccine series regardless of delay of second dose).
 - AstraZeneca/COVISHIELD: 28 days.² There is currently no maximum interval for second doses (i.e. no recommendation to restart a vaccine series regardless of delay of second dose).
- Second doses administered before 14 days (regardless of the vaccine product) were considered data entry errors and were excluded.

Age at the time of dose 1 administration was calculated using the client date of birth and the date of dose 1 administration. Ages reported as ≥ 120 years, < 0 years, or where date of birth

was missing were considered unknown. In Canada, the Pfizer-BioNTech COVID-19 vaccine is authorized for use in individuals aged 16 years and older, and the Moderna and AstraZeneca COVID-19 vaccines are authorized for use in individuals aged 18 years and older.⁴⁻⁵ NACI has issued a discretionary recommendation that the Pfizer-BioNTech COVID-19 vaccine may be offered to adolescents 12-15 years of age if a risk assessment deems that the benefits of vaccination outweigh the risks.² Based on expected vaccine product use as per NACI and product monographs, clients under 12 years of age that received the Pfizer-BioNTech COVID-19 vaccine, and clients under 18 years of age that received the Moderna or AstraZeneca COVID-19 vaccines, were also considered to have unknown age.

- Clients reporting a gender of 'Non-binary/third gender' and 'Other' were combined into an 'Other' category. 'Unknown' gender included clients where gender was reported as 'Prefer not to say', 'Unknown', or where gender was missing.
- Organization postal code and public health unit were assigned using institution-specific IDs.
- Postal code of residence was extracted from the client residential address. For clients identified as residents of a long term care home (LTCH) or retirement home (RH), and where postal code was not reported, the postal code of the LTCH or RH was used as the postal code of residence.
- For clients where the public health unit of residence was not reported and the postal code of residence was available, the postal code of residence was used to assign clients to a public health unit of residence. For clients identified as residents of LTCHs or RHs, and where public health unit of residence was not reported, the public health unit of the LTCH or RH was used to assign clients to a public health unit of residence.
- Priority population categories were informed by the MOH's [COVID-19: Guidance for Prioritization Health Care Workers for COVID-19 Vaccination](#).⁸
- The 'reason for immunization' field was used to derive priority population categories as follows:
 - LTCH/RH residents includes individuals identified as a resident of a LTCH/RH.
 - HCW in LTCH/RH include individuals employed as LTCH/RH in a health care capacity.
 - LTCH/RH other employees/essential caregivers include individuals employed in LTCH/RH in a non-health care capacity as well as individuals that are not employees and provide care to residents.
 - HCW (not LTCH/RH) includes hospital staff as well as individuals working in a health care setting, such as laboratory staff and clinic staff.
 - Congregate setting (not LTCH/RH) staff/residents include individuals that are employed or reside in congregate living settings, such as shelters.
 - Adult recipients of chronic home care includes individuals receiving chronic home care.
 - Advanced age includes individuals that were immunized due to older age and who reside in the community (non-congregate settings).

- Adults with high risk conditions includes individuals prioritized for immunization due to a high risk medical condition (such as immune compromising conditions) as well as their caregivers.
- Agricultural/farm/food manufacturer worker includes temporary and non-temporary agricultural and/or farm workers and individuals that work in food manufacturing.
- Community at greater risk includes individuals residing in areas with high COVID-19 incidence.
- Education worker includes teachers and other individuals employed in education.
- Other priority population includes individuals where a specific reason for immunization was not provided as well as priority populations not outlined above.
- Not reported includes individuals where no reason for immunization was provided.

Methods: Case Data

- Case episode date is based on an estimate of the best date of disease onset. This date is calculated based on either the date of symptom onset, specimen collection/test date, or the date reported to the public health unit.
- Cases for which the Classification and/or Disposition was reported as ENTERED IN ERROR, DOES NOT MEET DEFINITION, IGNORE, DUPLICATE, or any variation on these values have been excluded. Duplicate records may exist if these records were not identified and resolved prior to data upload to the Ministry.
- Age at the time of illness was calculated using the client date of birth and episode date. Ages reported as ≥ 120 years, < 0 years, or where date of birth was missing were considered unknown.
- The 'health care workers' variable includes cases that reported 'Yes' to any of the occupation of health care worker, doctor, nurse, dentist, dental hygienist, midwife, other medical technicians, personal support worker, respiratory therapist, first responder.
- 'Long-term care home residents' includes cases that reported 'Yes' to the risk factor 'Resident of a long-term care home'; or 'Yes' to the risk factor 'Resident of nursing home or other chronic care facility' and reported to be part of an outbreak assigned as a long-term care home (via the Outbreak number or case comments field); or were reported to be part of an outbreak assigned as a long-term care home (via the outbreak number or case comments field) with an age over 70 years and did not report 'No' to the risk factors 'Resident of long-term care home' or 'Resident of nursing home or other chronic care facility'. 'Long-term care home residents' excludes cases that reported 'Yes' to any of the health care worker occupational risk factors.

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