

# COVID-19 Update

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JUNE 17, 2021

QUESTIONS: [VCHELP@FNTN.CA](mailto:VCHELP@FNTN.CA)

# Outline

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1. MOH Update - Dr. Wadieh Yacoub, Dr. Chris Sarin, & Simon Sihota
2. COVID-19 Vaccine Update – Dr. Chris Sarin
3. COVID-19 and Wastewater – Dr. Xiaoli Lilly Pang
4. Questions

# MOH Update

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DR. WADIEH YACOUB, SENIOR MEDICAL OFFICER OF HEALTH

DR. CHRIS SARIN, DEPUTY MEDICAL OFFICER OF HEALTH

SIMON SIHOTA, REGIONAL MANGER, ENVIRONMENTAL PUBLIC  
HEALTH SERVICES

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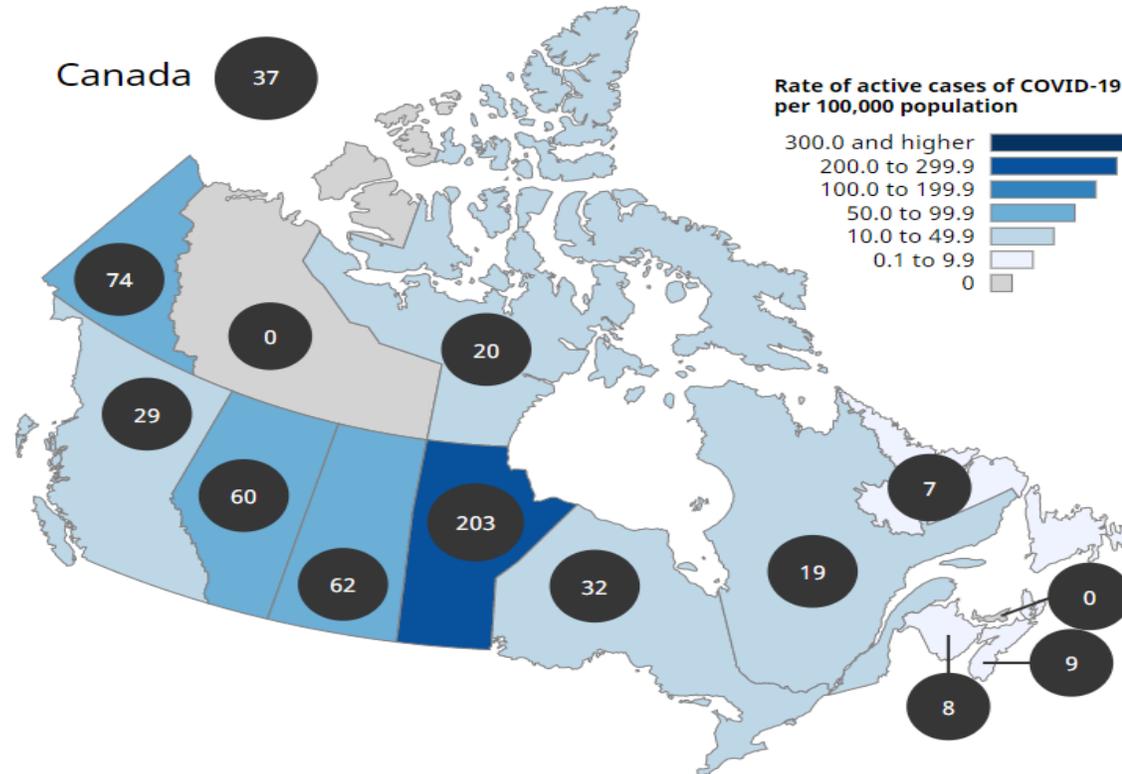
# Reminder - Privacy

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- All information related to an individual who is or was infected with a communicable disease shall be treated as private and confidential
- No information shall be published, released or disclosed in any manner that would be detrimental to the personal interest, reputation or privacy of that individual.

# Current Situation – Canada (as of June 16, 2021)

**Total number of active cases in Canada:**  
**14,148**



Public Health Agency of Canada [https://health-infobase.canada.ca/covid-19/dashboard/?stat=rate&measure=total\\_last14&map=hr&f=true#a2](https://health-infobase.canada.ca/covid-19/dashboard/?stat=rate&measure=total_last14&map=hr&f=true#a2)

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# Current Situation - Alberta

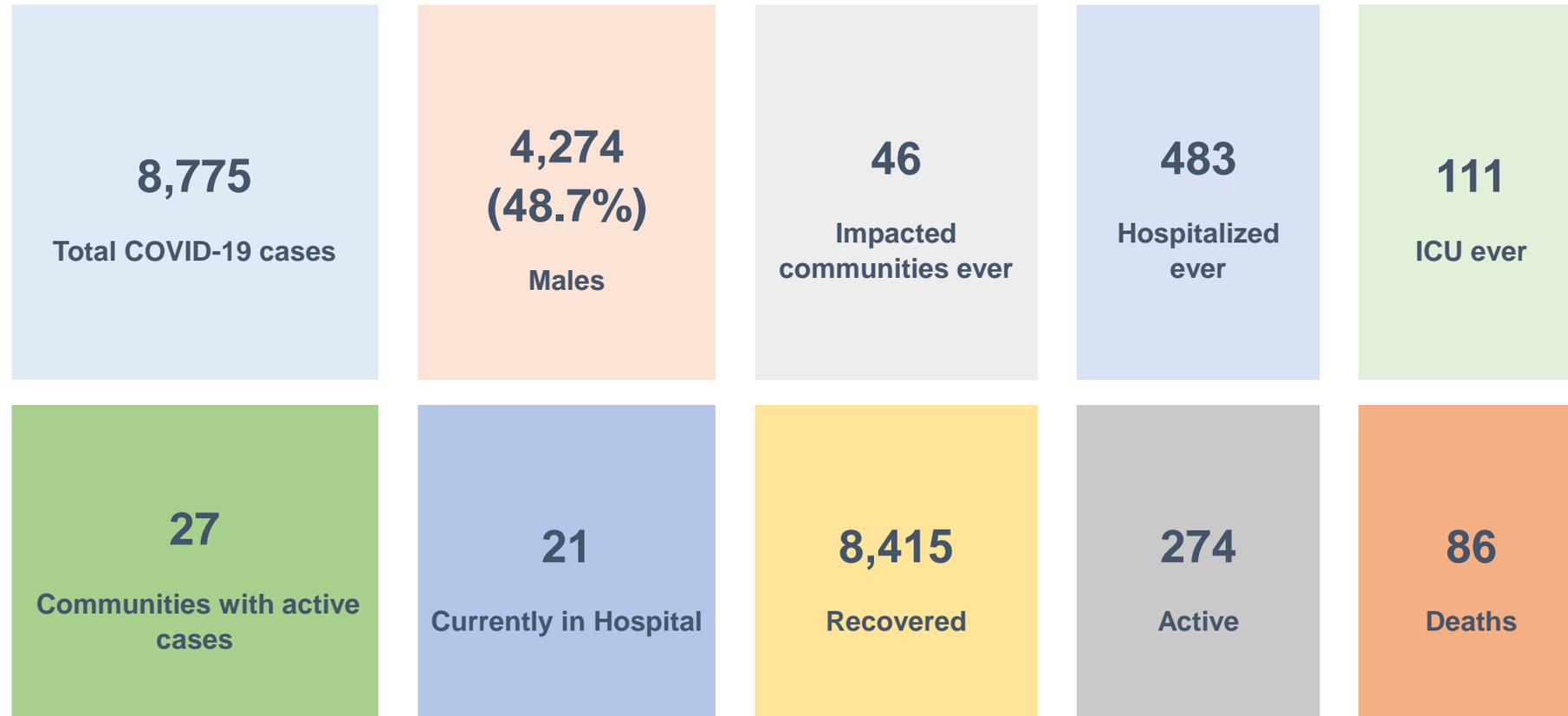
Overview of COVID-19 in Alberta (as of June 15, 2021):



Interactive Alberta data can be found at: <https://covid19stats.alberta.ca/>

# Overview of COVID-19 cases in First Nations communities on reserve in Alberta

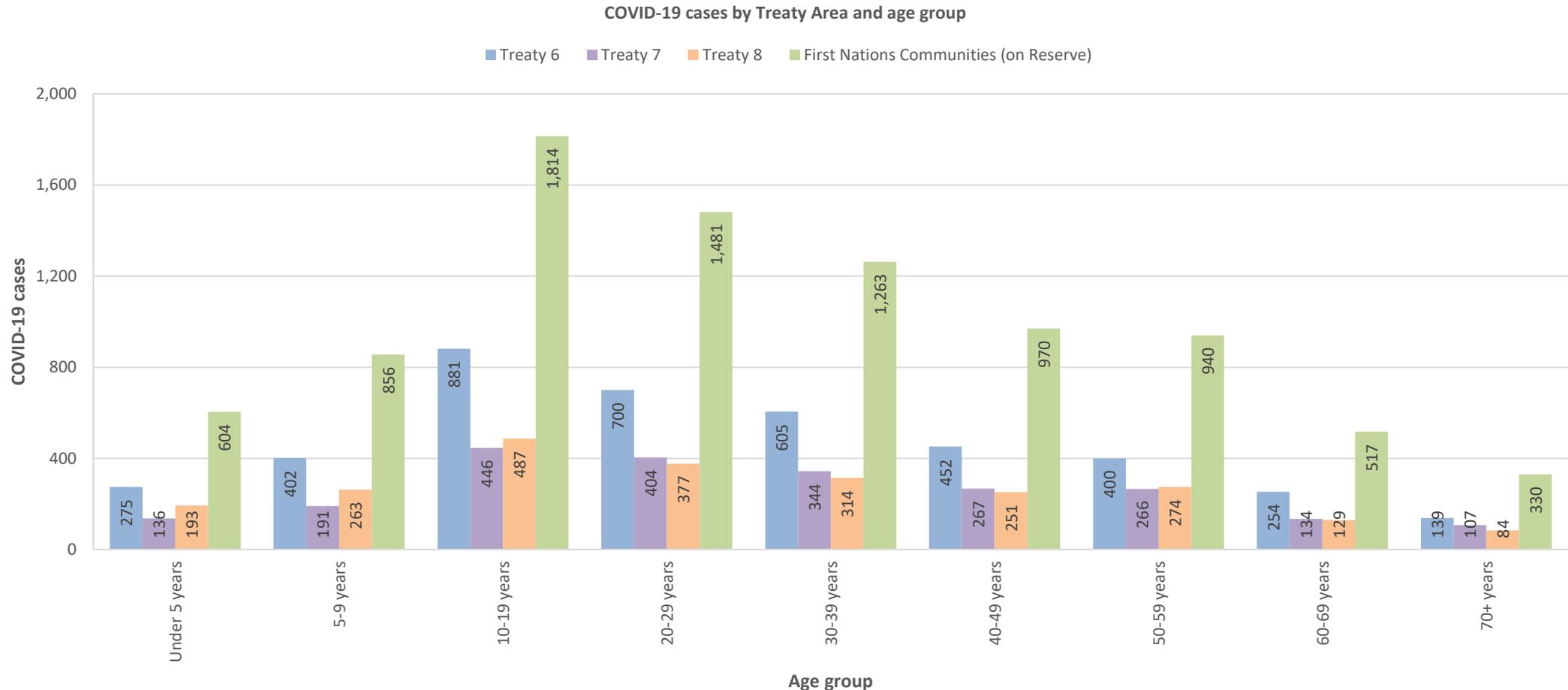
Source: FNIHB COVID-19 ER System via Synergy in Action (June 16, 2021)



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# Age distribution of on-reserve COVID-19 cases in Alberta

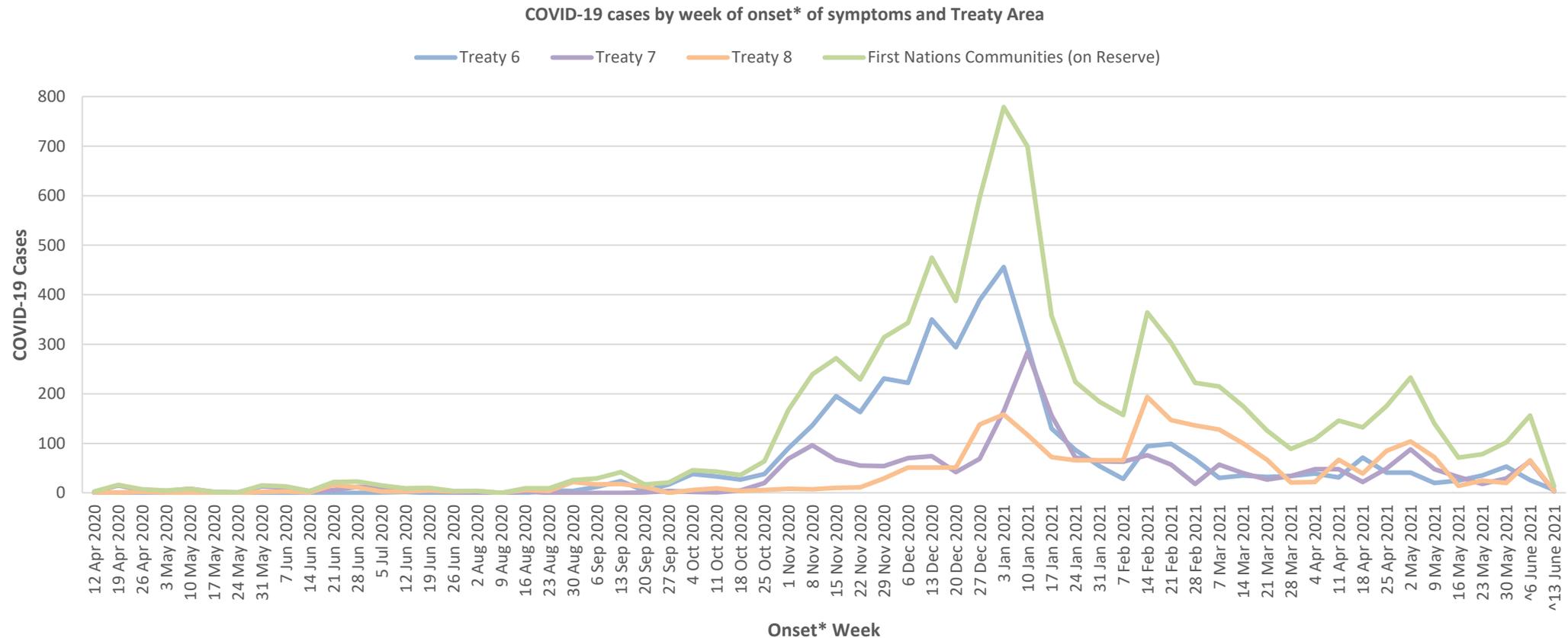
Source: FNIHB COVID-19 ER System via Synergy in Action (June 16, 2021)



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# COVID-19 cases by week of onset\* by Treaty Area

Source: FNIHB COVID-19 ER System via Synergy in Action (June 16, 2021)



\*Onset date is the earliest of the “date of onset of symptoms” and “specimen collection date”

^Data may be incomplete due to late receipt of lab reports

# Severe Outcomes

Sources: FNIHB COVID-19 ER System via Synergy in Action (June 16, 2021) & <https://www.alberta.ca/stats/covid-19-alberta-statistics.htm> (June 14, 2021)

	Total Case Hospitalization Rate	Total Case ICU Rate	Case Fatality Rate
Treaty 6	4.6 per 100 Cases	1.0 per 100 Cases	0.8 per 100 Cases
Treaty 7	7.7 per 100 Cases	1.8 per 100 Cases	1.4 per 100 Cases
Treaty 8	4.8 per 100 Cases	1.2 per 100 Cases	0.9 per 100 Cases
First Nations Communities (on reserves)	5.5 per 100 Cases	1.3 per 100 Cases	1.0 per 100 Cases
Alberta (includes First Nations communities)	4.1 per 100 Cases	0.8 per 100 Cases	1.0 per 100 Cases

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# Severe Outcomes –Average Age

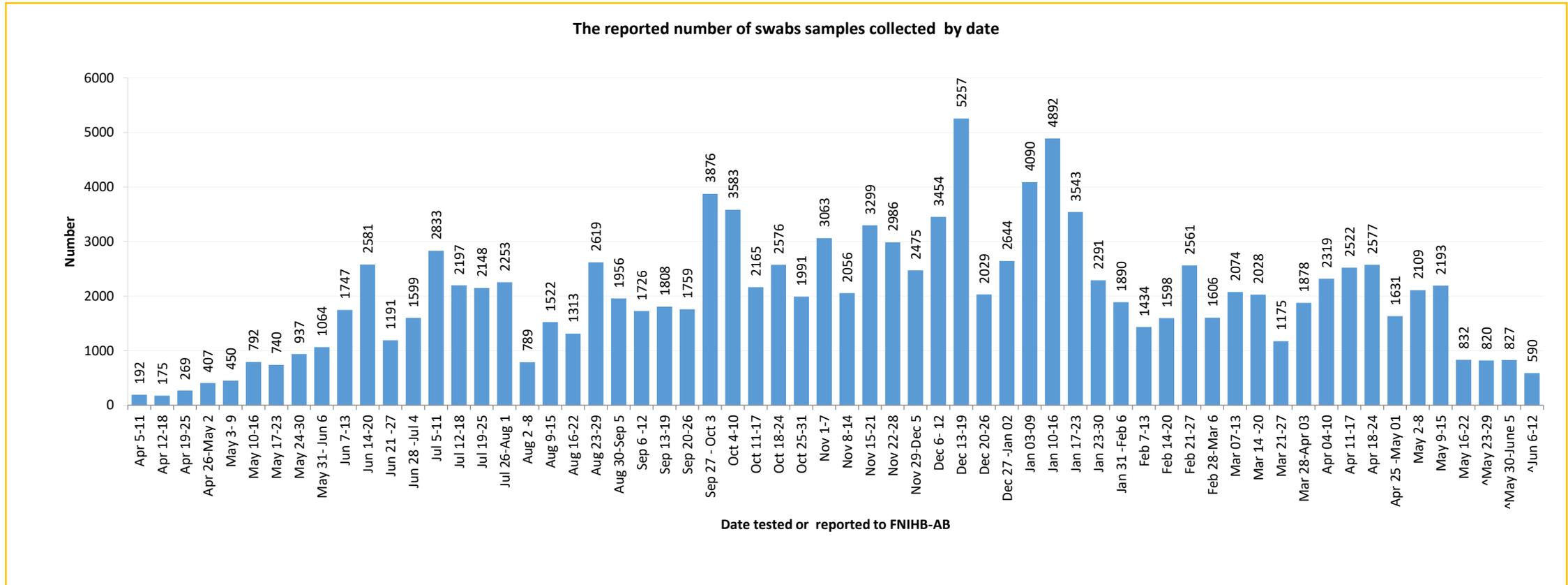
Sources: FNIHB COVID-19 ER System via Synergy in Action (June 16, 2021) & <https://www.alberta.ca/stats/covid-19-alberta-statistics.htm> (June 14, 2021)

	Average age of cases hospitalized	Average age of ICU cases	Average age of deceased cases	Average age of non-hospitalized cases
Treaty 6	52 years (range:14-88)	54 years (range:17-88)	66 years (range:23-88)	29 years (range:0-94)
Treaty 7	55 years (range:16-86)	57 years (range:21-78)	64 years (range:20-86)	30 years (range:0-87)
Treaty 8	56 years (range:1-93)	59 years (range:20-82)	72 years (range:48-93)	28 years (range:0-87)
First Nations Communities (on reserves)	54 years (range:1-93)	57 years (range:17-88)	67 years (range:20-93)	29 years (range:0-94)
Alberta (includes First Nations communities)	60 years (range:0-104)	57 years (range:0-90)	80 years (range:20-107)	35 years (range:0-108)

QUESTIONS: VCHELP@FNTN.CA

# Test Volume

Sources: Community Reports to FNIHB-AB (June 16, 2021)



^late reporting from some communities

	Test volume	Percent positive test
First Nations (on reserve)*	128,506	6.8%
All Albertans	4,611,956	5.0%

\*some communities are not reporting testing data to FNIHB-AB, so percent positive test may be overestimated

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# Alberta COVID-19 Testing Criteria

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Testing is available for:

- any person exhibiting any [symptoms of COVID-19](#)
- all close contacts of confirmed COVID-19 cases
- all workers and/or residents at specific outbreak sites

Asymptomatic testing has been paused for people who have no known exposure to COVID-19.

FNIHB MOHs will provide guidance to prioritize testing in First Nation communities with cases.

# COVID-19 Variant of Concern Testing

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Due to the large number of positive COVID-19 cases, the provincial lab only screened a sample of positive cases for variants of concern between May 1, 2021 - May 31, 2021.

As of June 1, 2021, variant of concern testing resumed for all COVID-19 positive samples.

# Number of Reported COVID-19 Variant of Concern Cases, by Location as of June 15, 2021

<b>Location</b>	<b>B.1.1.7 (Alpha) <i>First identified in the UK</i></b>	<b>B.1.351 (Beta) <i>First identified in South Africa</i></b>	<b>B.1.617.2 (Delta) <i>First identified in India</i></b>	<b>P.1 (Gamma) <i>First identified in Brazil</i></b>	<b>Total Number of Variant Cases Reported</b>
<b>AB First Nations On-Reserve</b>	914	0	2	26	942
<b>Alberta (includes cases on-reserve )</b>	44,959	156	356	2,704	48,175
<b>Canada</b>	215,166	1,915	1,766	15,290	234,137

# Current Situation: Stage 2 Re-Opening

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Started June 10<sup>th</sup>:

Two weeks after 60% of Albertans 12+ received at least one dose of vaccine and hospitalizations were below 500 and declining.

## **Public Health Measures in Effect:**

- Work from home order is lifted but still recommended
- Physical distancing and masking requirements remain in effect
- Outdoor social gatherings – up to 20 people with distancing (indoor social gatherings still not permitted)
- Funeral services – up to 20 people, indoors and outdoors (receptions permitted outdoors only)
- Wedding ceremonies – up to 20 people, indoors and outdoors (receptions permitted outdoors only)
- Restaurants – 6 people per table max, indoors or outdoors
- Places of worship – 1/3 of fire code occupancy

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# Stage 2: Public Health Measures in Effect (cont'd)

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- Gyms and fitness studios – open for solo and drop-in activities and indoor fitness classes with 3 metre distancing
- Retail – 1/3 of fire code occupancy (must maintain ability to distance)
- Youth activities (day camps, overnight camps, play centres) – resume with restrictions
- Youth and adult sports – resume with no restrictions, indoors and outdoors
- Outdoor public gatherings (concerts/festivals) – up to 150 people
- Outdoor fixed seating facilities (grandstands) – 1/3 seated capacity
- Personal and wellness services – resume walk-in service
- Post-secondary – resume in-person learning
- Indoor recreation, entertainment and other settings (rec centres, arenas, casinos, cinemas, theatres, museums, galleries, libraries, etc.) – open at 1/3 of fire code occupancy

For further information, refer to: <https://www.alberta.ca/enhanced-public-health-measures.aspx>

# Next Step: Stage 3 Re-Opening

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**Expected to occur two weeks after 70% of Albertans 12+ (born in 2009 or earlier) have received at least one dose of COVID-19 vaccine**

**Will likely begin in early July**

- During this stage, all restrictions will be lifted, including the ban on indoor social gatherings.
- Isolation requirements for confirmed cases of COVID-19 and some protective measures in continuing care settings will remain in effect.



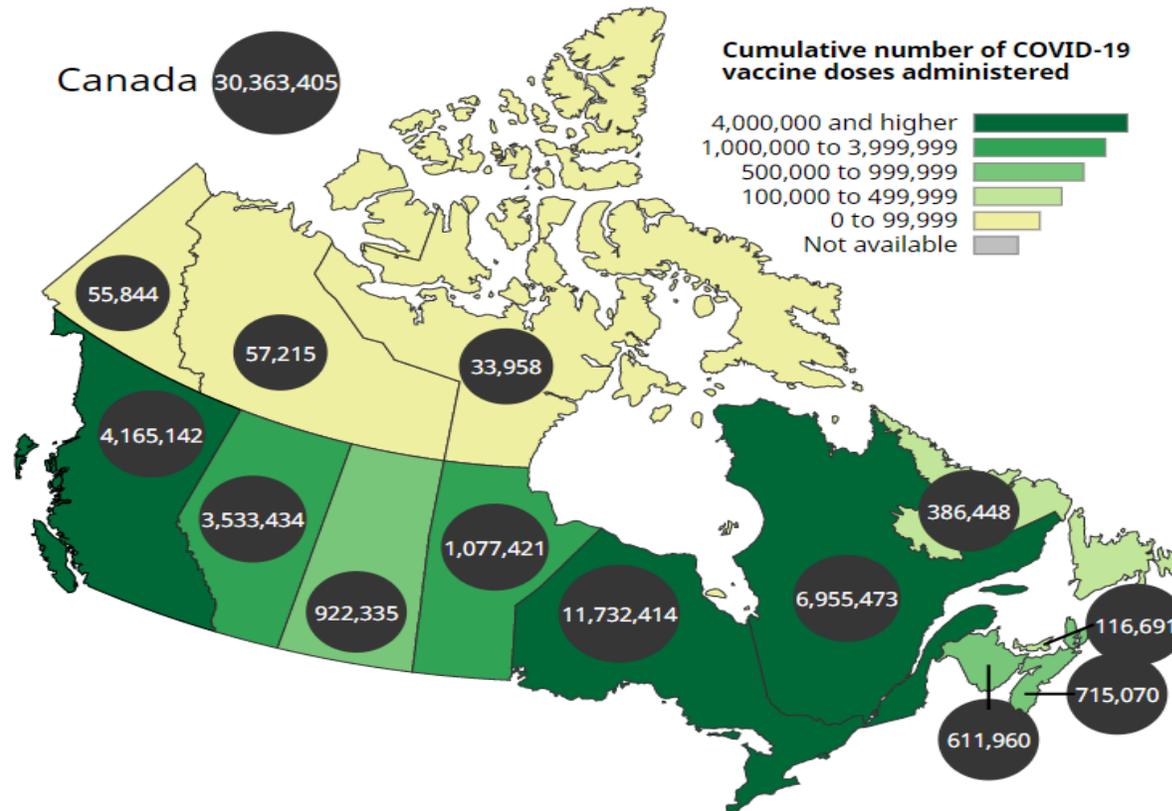
# COVID-19 Vaccine Update

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DR. CHRIS SARIN, DEPUTY MEDICAL OFFICER OF HEALTH

QUESTIONS: [VCHELP@FNTN.CA](mailto:VCHELP@FNTN.CA)

# Cumulative Number of COVID-19 Vaccine Doses Administered in Canada by Jurisdiction as of June 16, 2021



Source: <https://health-infobase.canada.ca/covid-19/vaccine-administration/>

QUESTIONS: VCHELP@FNTN.CA

# Alberta Vaccine Program

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Everyone born in 2009 or before (turning 12+) can get their first dose now. [Second doses](#) are being offered in stages.

## Second doses

If you got an mRNA vaccine (Pfizer or Moderna) for your first dose, you should get an mRNA vaccine for your second dose to become fully vaccinated.

### When to book

- First dose in March or earlier – book second dose starting June 1
- First dose in April – book second dose starting June 10
- First dose in May – book second dose starting June 28

# COVID-19 Vaccine Data – Alberta

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As of June 15<sup>th</sup> in Alberta:

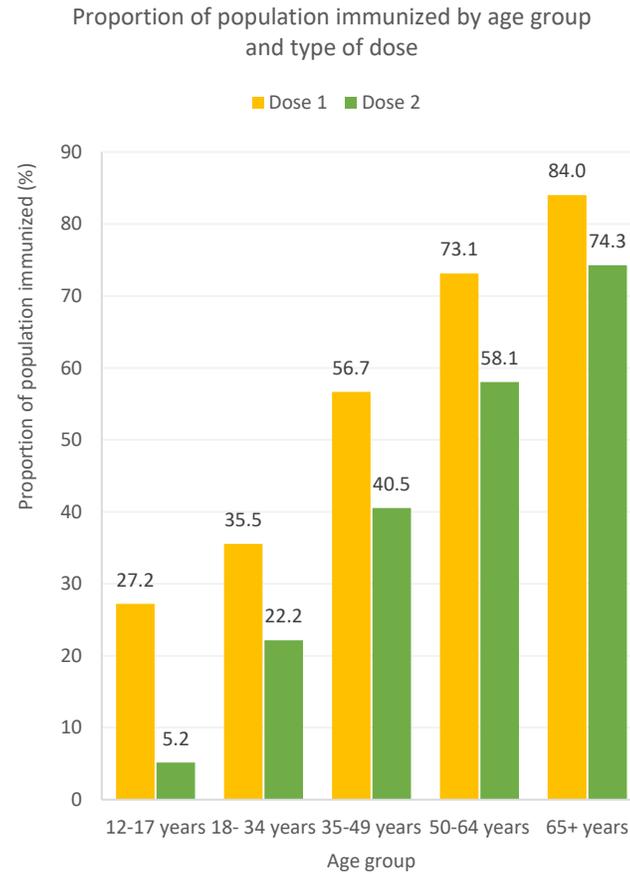
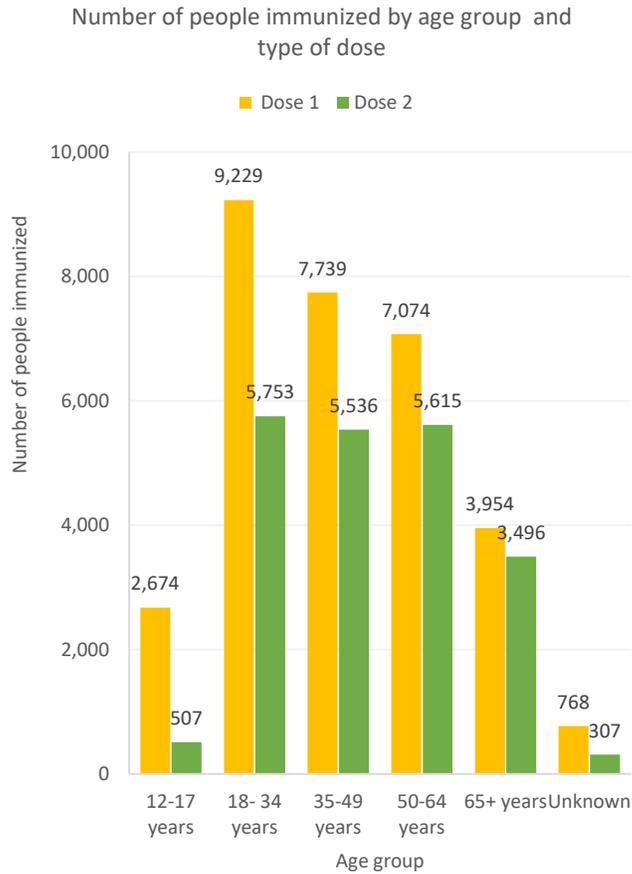


Up to date information can be found at <https://www.alberta.ca/covid19-vaccine.aspx>

QUESTIONS: VCHELP@FNTN.CA

# COVID Immunization Activity – On Reserve in Alberta

Source: Okaki Slice Analytics (June 16, 2021)



Doses administered  
**52,841**

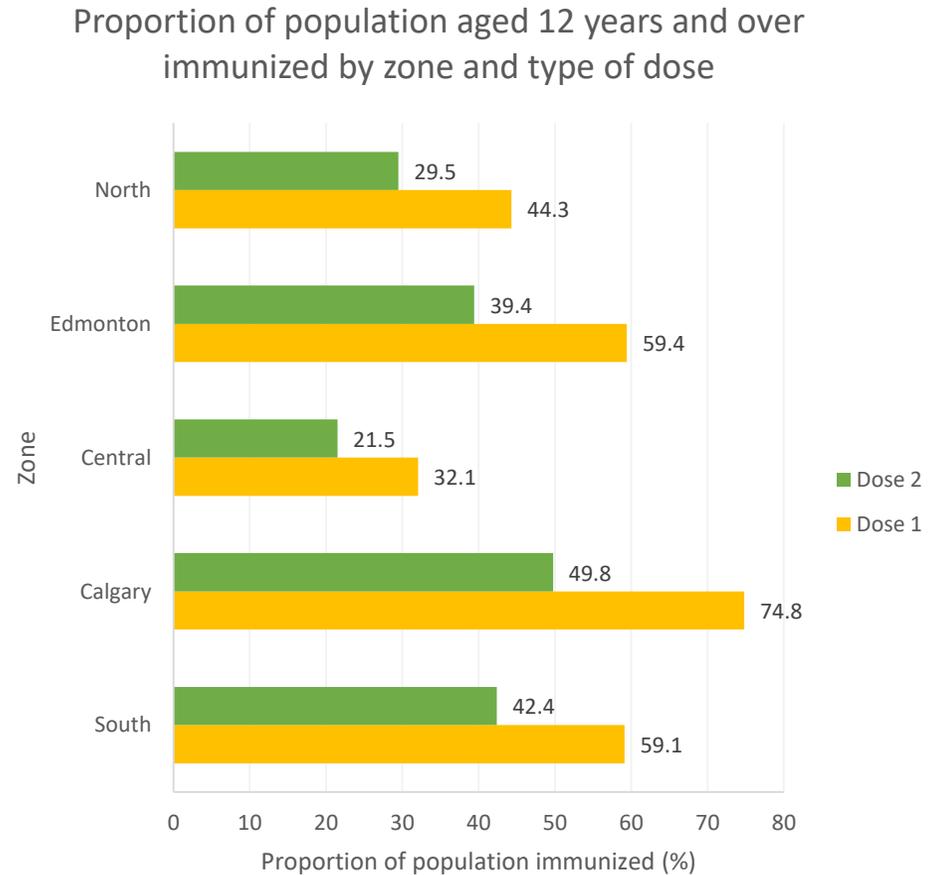
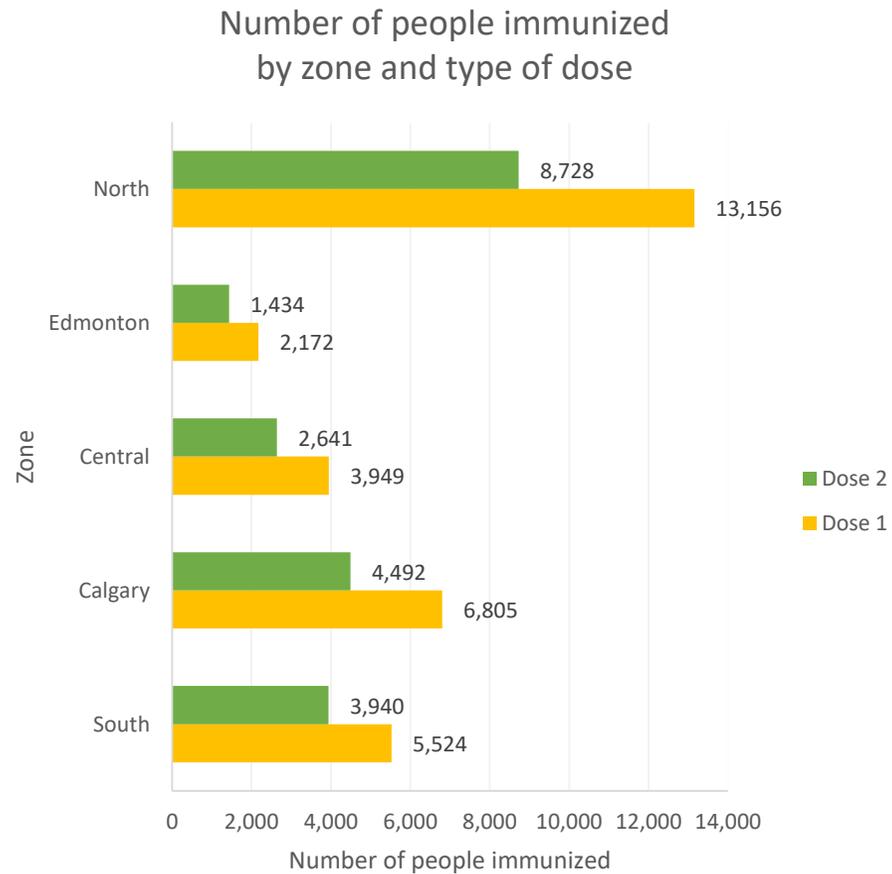
Number of people who have received at least one dose  
**31,606**

Number of people who are fully immunized (2 doses)  
**21,235**

Number of Nations (bands) with Immunizations  
**46**

# COVID Immunization Activity – On Reserve in Alberta

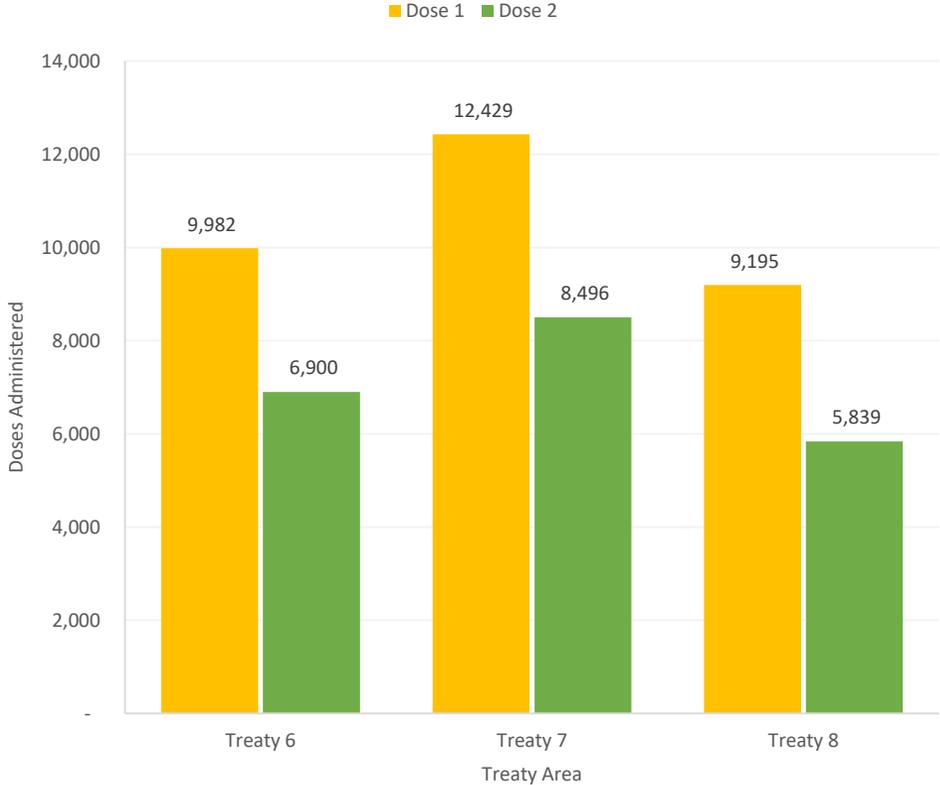
Source: Okaki Slice Analytics (June 16, 2021)



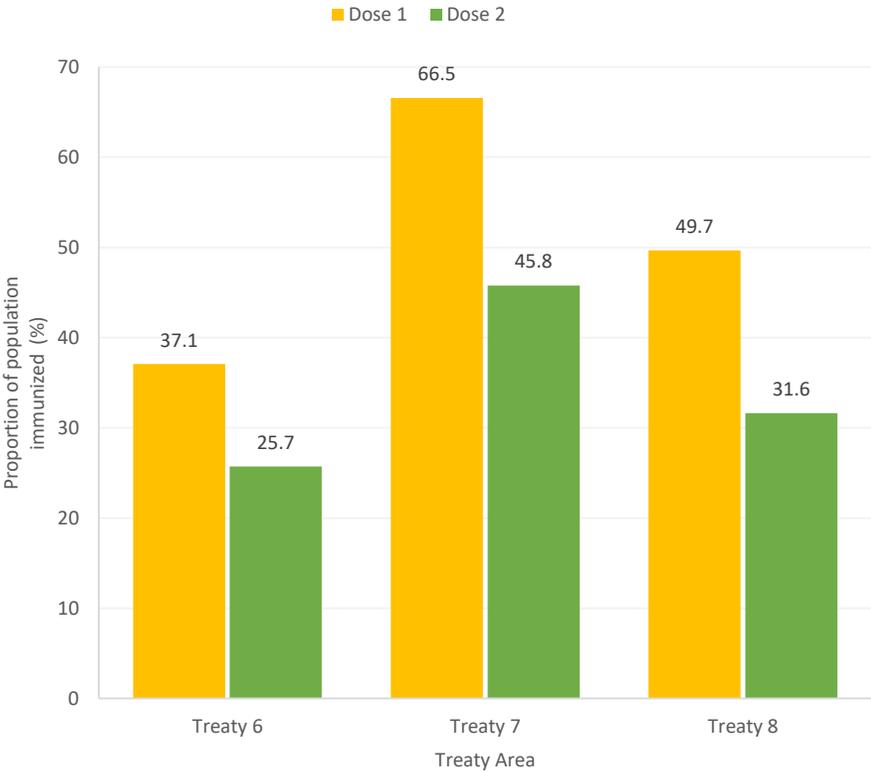
# COVID Immunization Activity – On Reserve in Alberta

Source: Okaki Slice Analytics (June 16, 2021)

Number of people immunized by Treaty area and type of dose



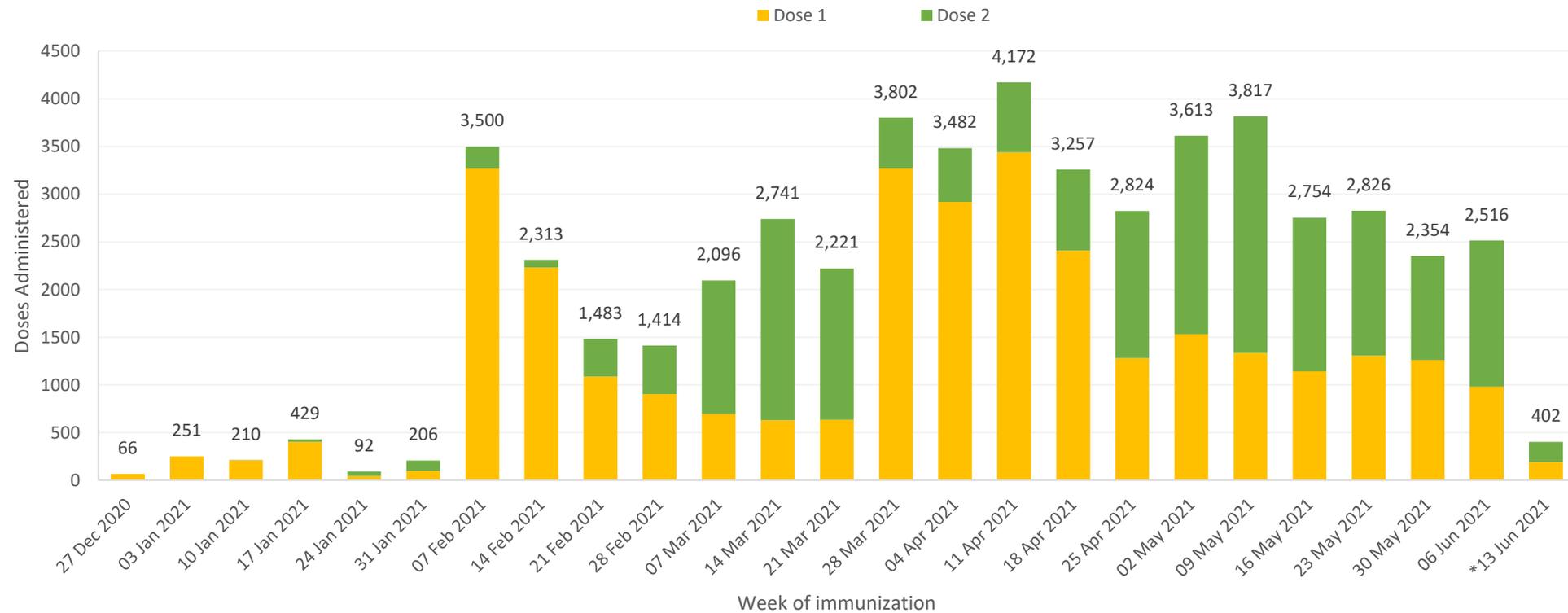
Proportion of population aged 12 years and over immunized by Treaty area and type of dose



# COVID Immunization Activity – On Reserve in Alberta

Source: Okaki Slice Analytics (June 16, 2021)

COVID-19 doses administered by week of immunization and type of dose

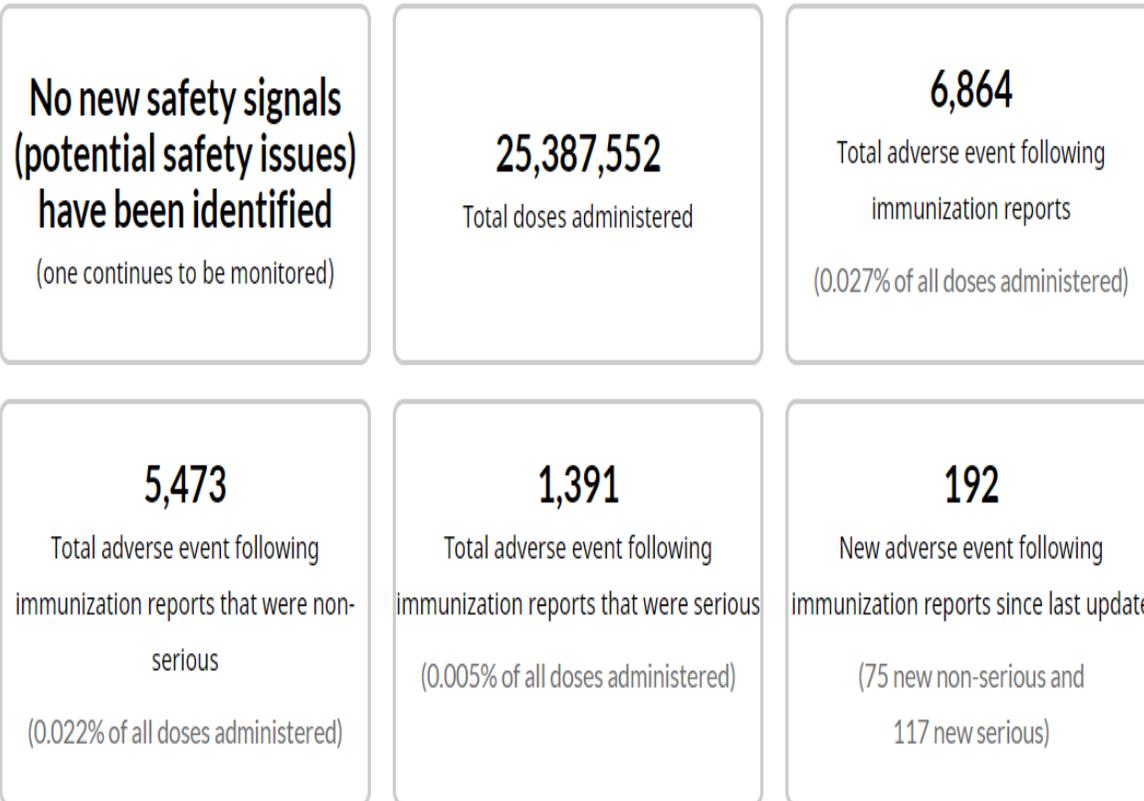


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# Reported side effects following COVID-19 vaccination in Canada and Alberta

## CANADA

AS OF JUNE 4, 2021



## ALBERTA

AS OF JUNE 15, 2021

3,533,434 Doses administered  
564 Adverse Events reported

**ALBERTA FIRST NATIONS ON RESERVE**  
AS OF JUNE 16, 2021

52,841 Doses Administered  
28 Adverse Events reported

QUESTIONS: [VCHelp@FNTN.ca](mailto:VCHelp@FNTN.ca)

# COVID-19 Vaccine Effectiveness in Alberta by Vaccine Manufacturer

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Vaccine	Effectiveness Against Symptomatic Illness: 14 Days After First Dose (95% CI)	Effectiveness Against Symptomatic Illness: 14 Days After Second Dose (95% CI)
Moderna	82% (80 to 84%)	<b>93% (90 to 96%)</b>
Pfizer	73% (72 to 74%)	<b>90% (88 to 91%)</b>

Source: <https://www.alberta.ca/stats/covid-19-alberta-statistics.htm#vaccine-outcomes>

# COVID-19 Vaccine Effectiveness Against Variants of Concern in Alberta

Variant of Concern	Effectiveness Against Symptomatic Illness: 14 Days After First Dose (95% CI)	Effectiveness Against Symptomatic Illness: 14 Days After Second Dose (95% CI)
B.1.1.7 (Alpha) <i>First identified in the UK</i>	73% (72 -75%)	<b>91% (89 – 92%)</b>
P1 (Gamma) <i>First identified in Brazil</i>	75% (68 – 81%)	<b>89% (77 – 95%)</b>

Source: <https://www.alberta.ca/stats/covid-19-alberta-statistics.htm#vaccine-outcomes>

# COVID-19 Vaccine Effectiveness Against Delta (B.1.617.2) Variant – UK Study

Vaccine	Effectiveness Against Symptomatic Illness: 21 Days After First Dose	Effectiveness Against Symptomatic Illness: 14 Days After Second Dose
Pfizer-BioNTech (mRNA)	33%	<b>88%</b>
AstraZeneca (viral vector)	33%	<b>60%</b>

Source: Public Health England <https://www.gov.uk/government/news/vaccines-highly-effective-against-b-1-617-2-variant-after-2-doses>

# Effectiveness of COVID-19 vaccines against hospital admissions with the Alpha (B.1.1.7) Delta (B.1617.2) Variants – UK Study

Vaccine	Effectiveness After First Dose Alpha (B.1.1.7)	Effectiveness After Second Dose Alpha (B.1.1.7)	Effectiveness After First Dose Delta (B.1.617.2)	Effectiveness After Second Dose Delta (B.1.617.2)
Pfizer-BioNTech (mRNA)	83%	<b>95%</b>	94%	<b>96%</b>
AstraZeneca	76%	86%	71%	92%

Source: Stowe J et al. Effectiveness of COVID-19 vaccines against hospital admission with the Delta (B.1617.2)

# For COVID-19 resources and links to credible sources of information

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GO TO THE ALBERTA ONE HEALTH COVID-19 UPDATE PAGE

[HTTPS://WWW.ONEHEALTH.CA/AB/ABCVID-19](https://www.onehealth.ca/ab/abcovid-19)

QUESTIONS: VCHELP@FNTN.CA

# Farewell Comments from Dr. Yacoub....

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# Happy Retirement Dr. Yacoub!

Relax, unwind, and enjoy.  
You'll be missed!!



# Acknowledgments

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Dr. Xiaoli Lilly Pang, Professor of Laboratory Medicine and Pathology – U of A

Dr. Wadieh Yacoub, Senior Medical Officer of Health - FNIHB

Dr. Chris Sarin, Deputy Medical Officer of Health - FNIHB

Simon Sihota, Regional Manager, EPHS – FNIHB

Ibrahim Agyemang, Senior Epidemiologist – FNIHB

TSAG Telehealth Team (Michelle Hoeber, Brooke Hames and team)

FNIHB Technical Team

# Questions?

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