

Response to COVID-19: May 2021 Update

Presentation to the Board of Health

May 10, 2021



A vertical blue bar on the left side of the slide, partially overlapping the text.

Status of COVID-19 Epidemic in Toronto

COVID-19 dashboard showing some signs of improvement

Case, hospitalization, and outbreak data as of May 5, 2021

Rt calculated May 2 using data as of May 1, 2021, percent positivity as of week ending May 1, 2021

Virus Spread and Containment

Status: RED - Indicators trending away from goals

New COVID-19 cases, 7 day moving average¹

963

New Hospitalizations, 7 day moving average¹

60.7

Active daily COVID-19 outbreaks in institutions¹

42

Effective Reproductive Number for COVID-19 Cases²

$R_t = 0.94$
(90% CI 0.73 to 1.16)

COVID-19 Laboratory Tests Percent Positivity, previous week average³

12.3%

Health System Capacity

Status: YELLOW - Indicators need attention

ICU bed occupancy rate⁴

81%

ICU-ventilator bed occupancy rate⁴

57%

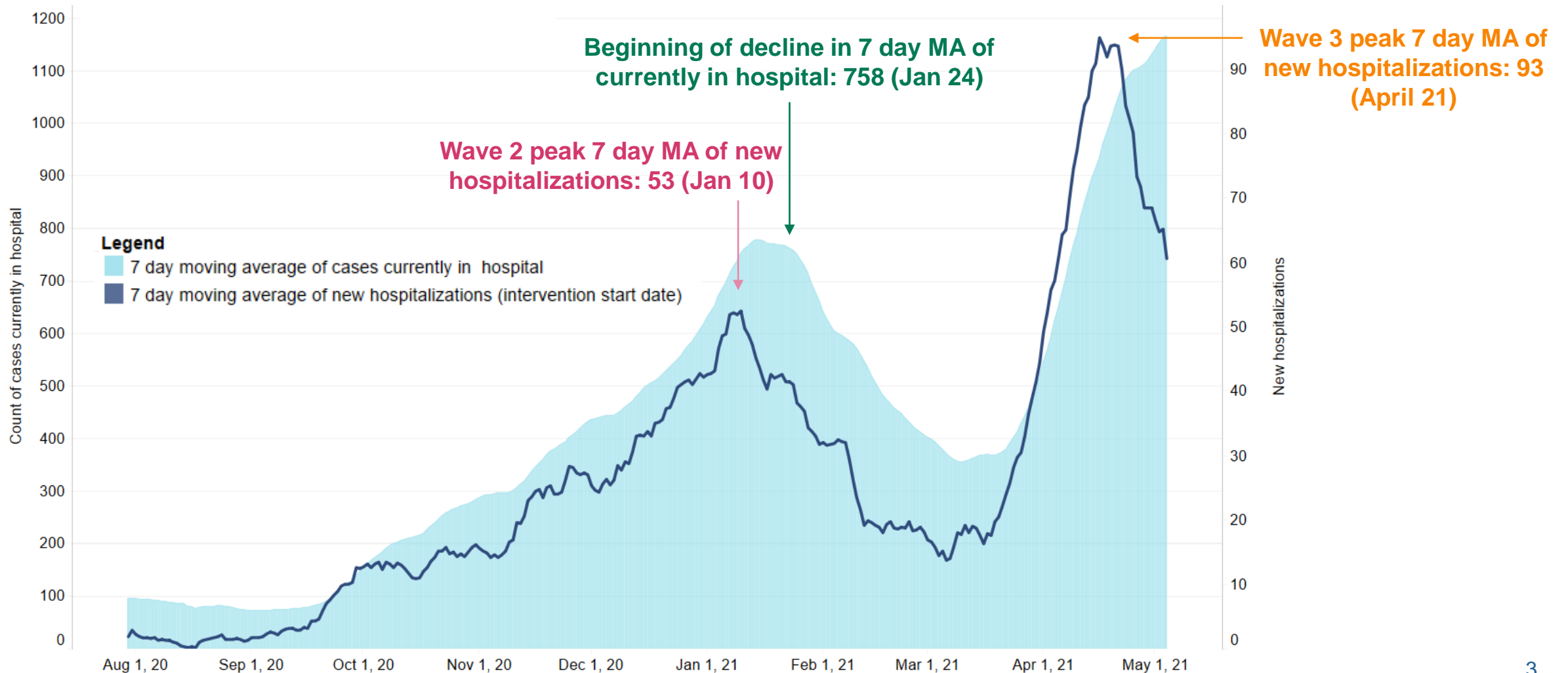
Acute bed occupancy rate⁴

84%

Number of cases currently in hospital remains high and has not yet peaked

Cases currently in hospital and count of daily new hospitalizations, 7 day moving average (3 day lag)

Toronto, August 1, 2020 to May 6, 2021



Toronto case rates continue to decrease, but remain far from safe reopening

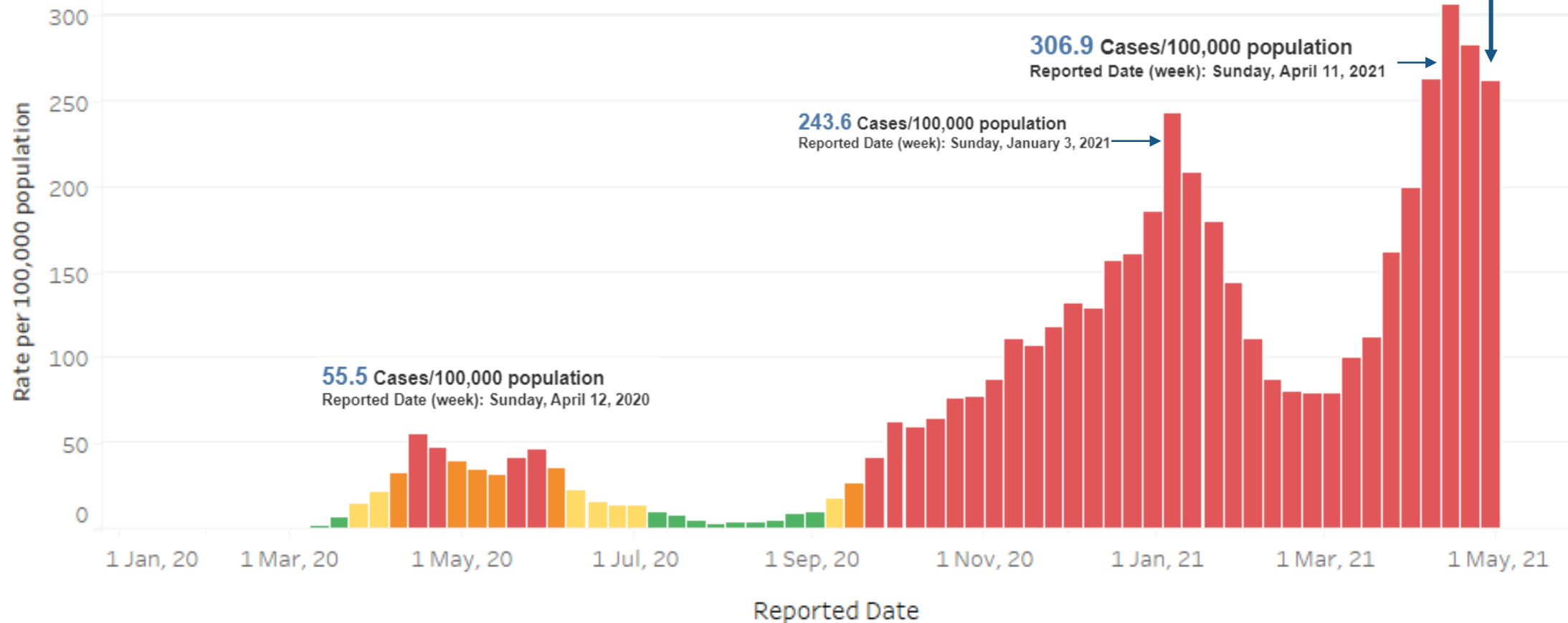
Epidemic curve of weekly COVID-19 incidence rates by reported date

Toronto, week of January 19, 2020 to April 25, 2021

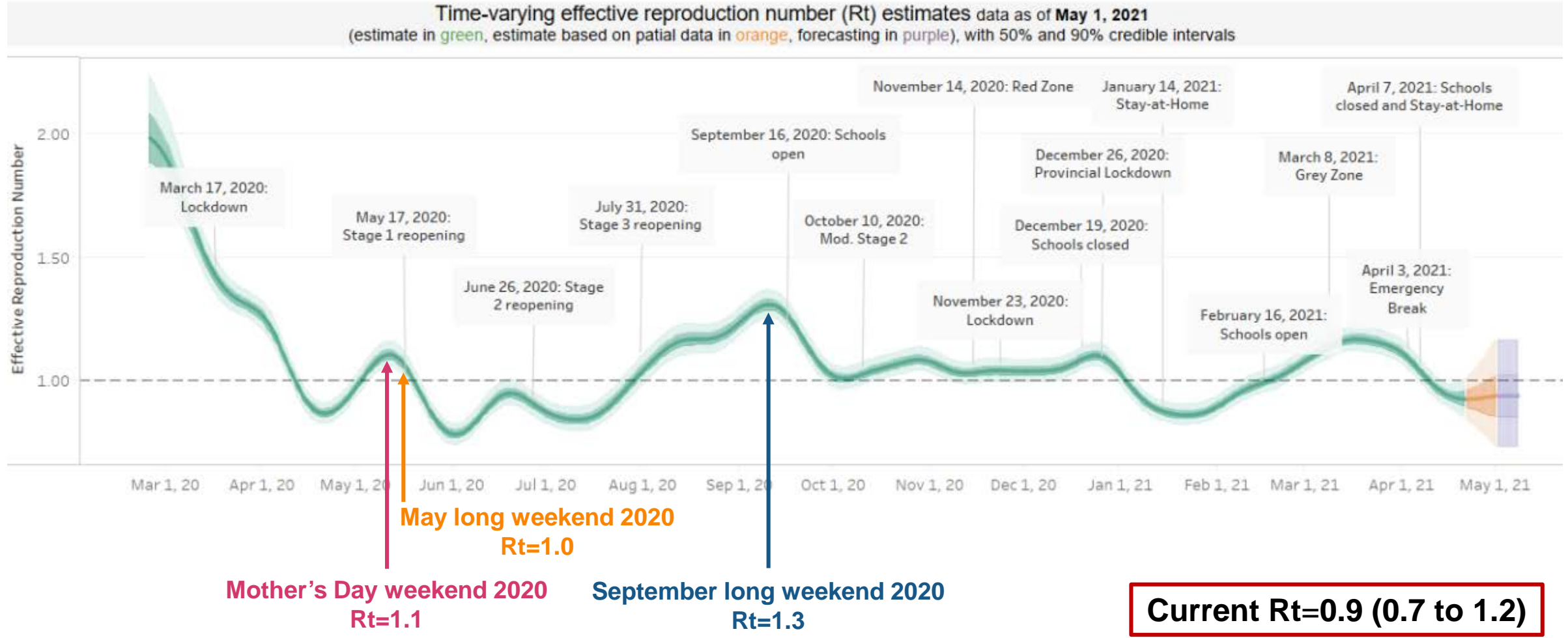
● Reported Date

○ Episode Date

○ Specimen Collection Date (updated M-F)

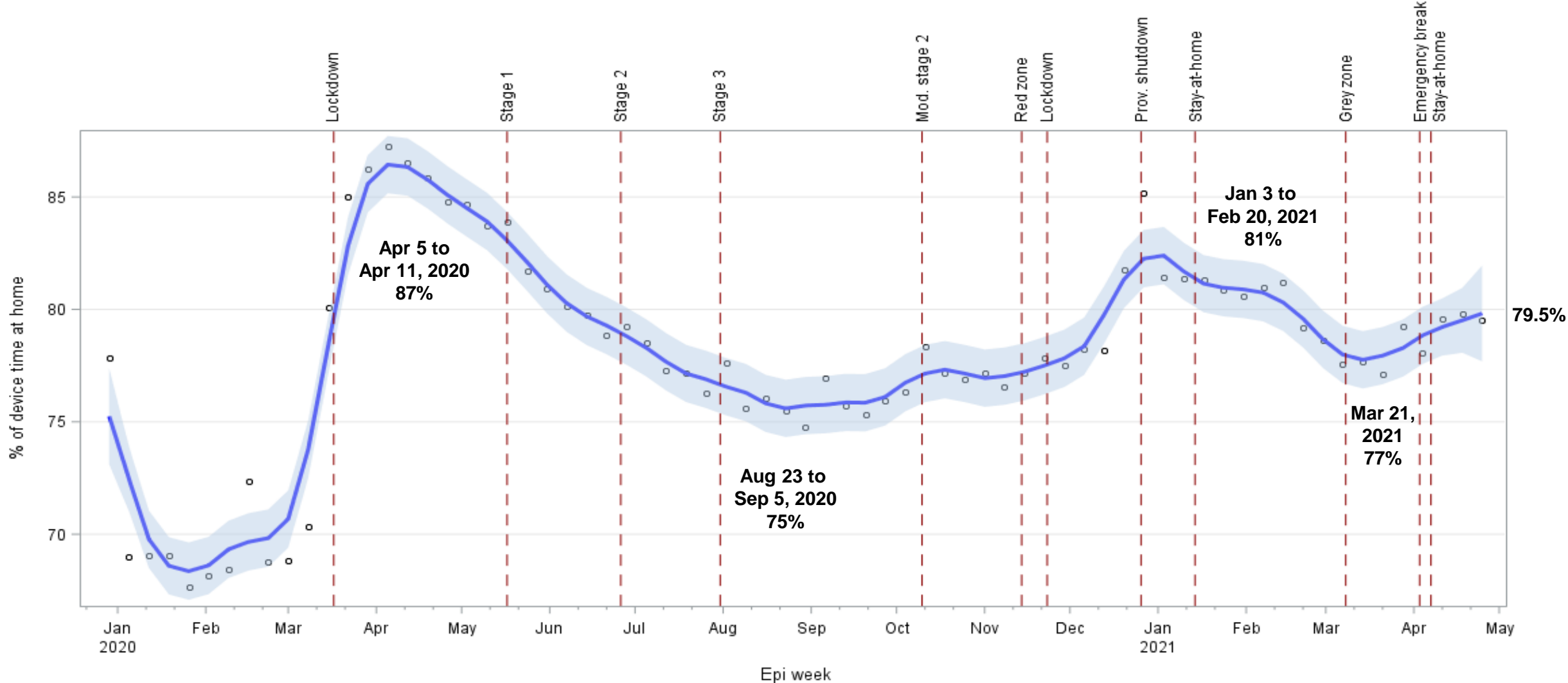


Rt remains below 1.0 for second week in a row

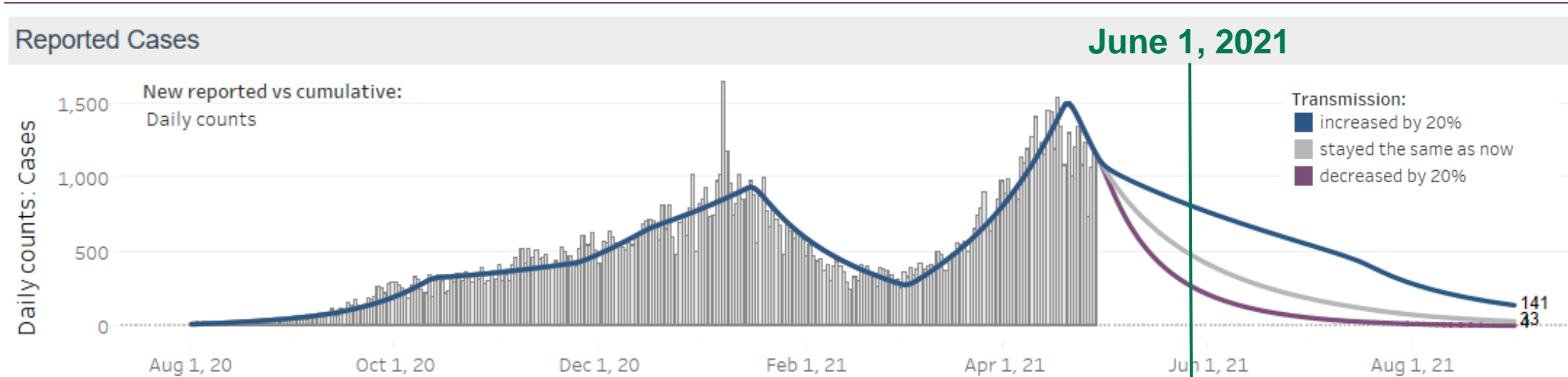


Stay at home orders increased time at home, which has plateaued at just under 80%

Weekly proportion of device-time at home, median for Toronto, between Jan 1, 2020 – May 1, 2021

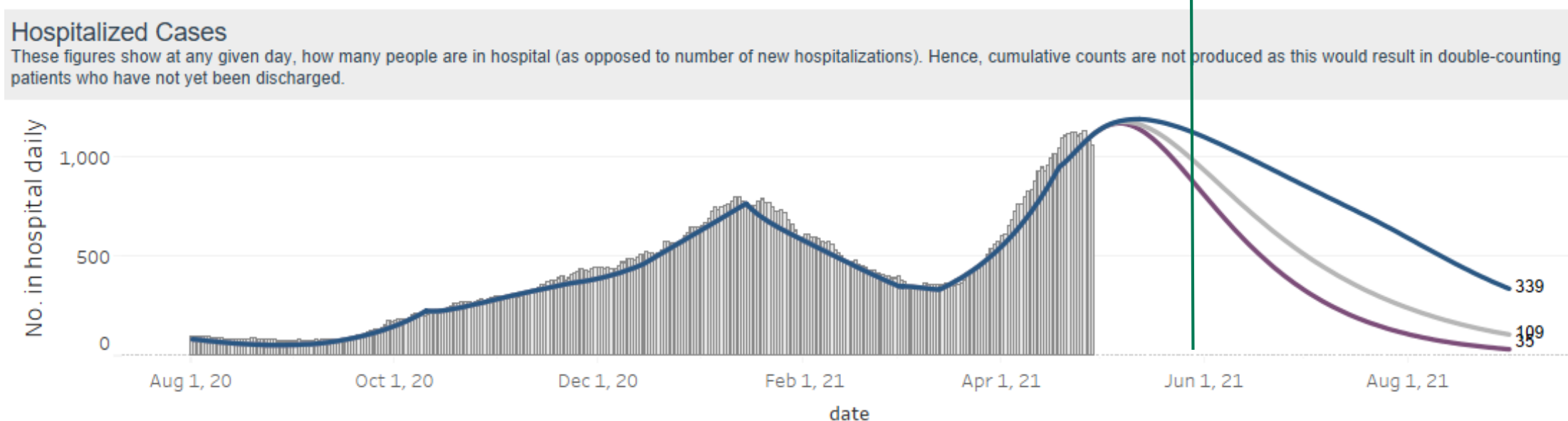


Emergency brake had a significant impact on projected cases, but pressure on hospital system continues



If transmission stays the same (grey line) then:

~400 daily cases by beginning of June



~900 cases in hospital by beginning of June (higher than peak in Wave 2)

We need to break our pattern of COVID transmission related to long weekends

Epidemic curve of weekly COVID-19 incidence rates by reported date

Toronto, week of January 19, 2020 to April 25, 2021





Summary



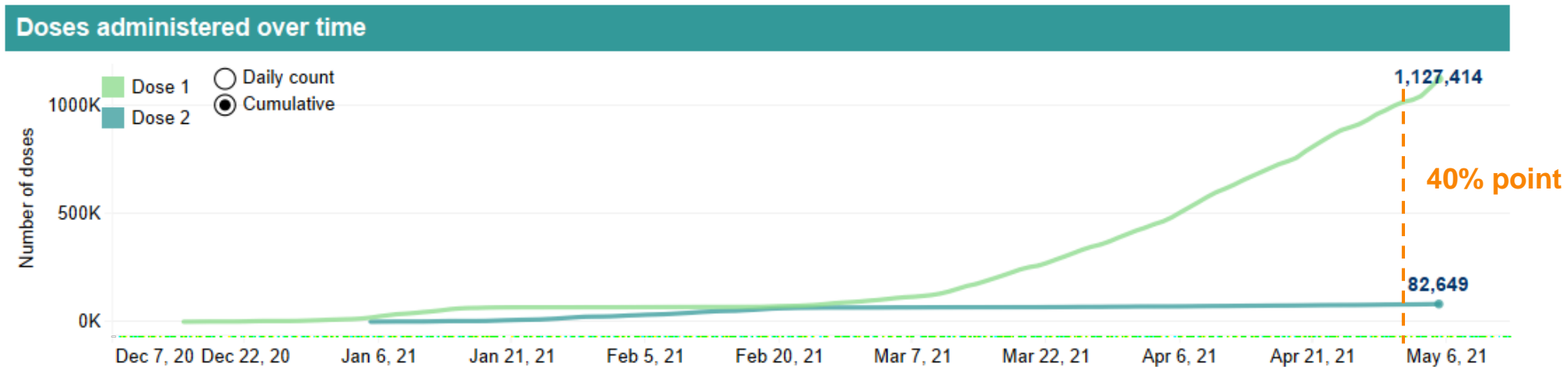
Team Toronto

Vaccination progress

- Working with healthcare partners, pharmacies and Toronto Public Health to administer all available COVID-19 vaccines.
- To date, **1,445,809** COVID-19 vaccine doses have been administered in Toronto.
- Team Toronto effort is focused on getting as many residents vaccinated as quickly as possible based on an equitable allocation of available supply - expanding mobile vaccination efforts across Toronto to bring vaccine to the neighbourhoods most in need.

First goal of 40% of adults vaccinated by May 1 achieved; second goal is 65% by May 31

Provincial goal to vaccinate 40% of adult residents was achieved on May 1st



At the current rates of vaccination, we are on track to exceed the 65% goal by end of May

Projected coverage:

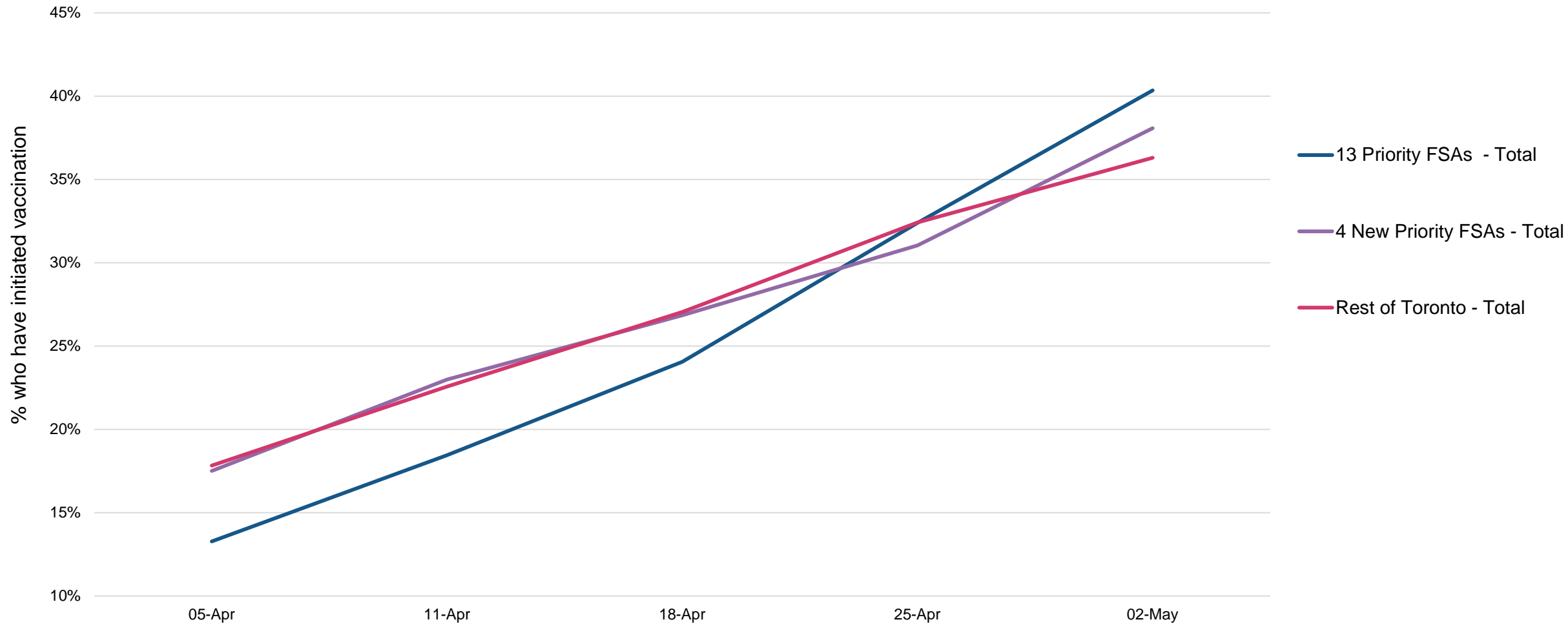
68%

Exceeds coverage goal

Assuming a vaccination rate of 23,220 daily doses administered for the age groups selected over 26 days, there will be a projected coverage of 68% with **at least one dose** and 603,716 doses given in total which **Exceeds coverage goal**.

Hot spot strategy success - increased vaccination coverage in priority areas

Proportion of people 18+ who have initiated vaccination (at least one dose) (%) comparing the 17 Team Toronto Priority FSAs to Toronto from April 5, 2021 to May 2, 2021



Vaccine coverage rates still not high among older age groups in highest incidence neighbourhoods

Vaccine coverage by age group and neighbourhood COVID-19 incidence quantile

December 15, 2020 to current

Neighbourhood quantiles (1=high neighbourhood COVID-19 incidence, 14=low neighbourhood COVID-19 incidence)

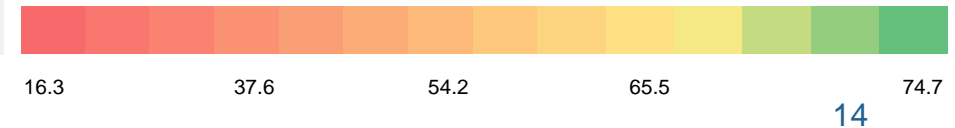
Age group	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Overall (%)
80+	60.7	57.1	56.5	53.6	51.8	60.0	55.6	56.0	58.2	53.5	59.2	60.7	60.9	65.4	57.7
75-79	64.9	64.1	67.7	67.0	67.2	68.6	67.4	69.4	69.7	69.5	67.7	72.1	72.8	73.8	68.7
70-74	63.2	64.5	66.3	67.3	65.5	68.6	68.3	69.9	69.7	70.8	68.8	70.8	72.2	74.7	68.6
65-69	61.1	62.8	62.9	65.0	63.2	63.7	65.3	66.1	65.9	67.3	66.3	67.1	67.6	74.2	65.5
60-64	59.3	60.3	61.1	62.2	61.4	59.1	63.0	64.4	63.3	66.1	65.2	66.4	66.4	74.2	63.4
55-59	52.9	52.1	52.0	52.6	53.0	50.6	52.3	54.2	50.3	52.9	51.7	54.8	51.1	64.9	53.1
50-54	47.1	48.1	46.2	45.8	46.1	44.0	44.4	47.4	41.2	42.6	39.5	44.2	38.7	50.4	44.7
45-49	37.9	34.9	35.8	35.3	35.7	34.9	34.9	35.4	34.5	37.6	37.6	38.5	35.8	45.3	36.7
40-44	34.7	32.3	33.3	31.4	32.2	33.3	31.8	33.8	34.8	37.1	37.7	35.6	34.1	43.5	34.5
16-39	28.7	23.0	26.2	22.3	21.8	21.2	17.8	18.2	16.9	18.3	17.5	18.8	16.3	17.6	20.5
Overall (%)	42.1	40.5	41.3	39.8	39.1	39.5	38.1	40.2	38.7	39.5	37.6	36.9	36.8	45.8	39.6

Vaccine coverage is highest among those 60 to 79 in the neighbourhoods with the lowest COVID-19 incidence rates.

Vaccine coverage (%)*

*Age-specific population by neighbourhood quantile

COVID-19 episode dates: Dec 15, 2020 to Apr 23, 2021
 COVID-19 vaccination data: Dec 15, 2020 to May 5, 2021



Younger groups showed largest changes in vaccine coverage, especially in high incidence neighbourhoods

Change in vaccine coverage by age group and neighbourhood COVID-19 incidence quantile

April 28 to May 5, 2021

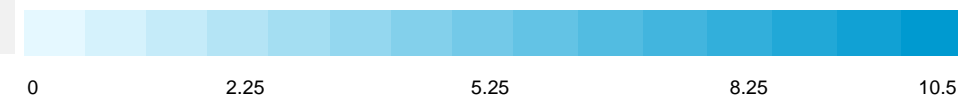
Neighbourhood quantiles (1=high neighbourhood COVID-19 incidence, 14=low neighbourhood COVID-19 incidence)

Age group	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Overall (%)
80+	1.4	1.4	1.3	0.7	1.1	1.1	1.1	0.8	0.7	0.5	1.0	0.7	0.6	0.5	1.0
75-79	2.2	2.5	1.9	1.3	2.2	1.7	1.4	1.3	0.9	1.1	0.9	0.7	0.7	0.5	1.4
70-74	3.3	3.2	2.5	2.0	2.4	1.9	1.8	1.7	1.4	1.4	1.5	0.8	0.7	0.6	1.8
65-69	4.4	3.9	4.1	3.6	3.5	3.4	3.2	2.9	2.5	2.3	2.1	1.5	1.6	0.9	2.9
60-64	5.3	4.4	4.2	3.7	3.5	3.3	3.3	3.2	2.8	2.3	2.0	1.6	1.8	0.9	3.1
55-59	8.2	7.3	8.7	7.7	7.5	7.0	7.0	6.9	5.9	5.8	5.7	4.6	5.1	3.5	6.6
50-54	8.9	8.4	9.4	7.7	9.3	8.0	6.9	6.6	6.1	6.2	5.9	5.3	5.0	5.2	7.2
45-49	10.0	10.5	10.1	9.3	8.9	9.3	8.6	8.0	7.0	7.5	6.7	7.0	5.3	5.9	8.2
40-44	9.7	10.3	9.4	8.2	8.1	7.7	6.3	6.2	5.8	7.1	5.8	6.0	5.1	5.8	7.2
16-39	8.9	9.6	10.3	8.5	7.6	7.5	6.2	6.0	5.0	6.6	5.3	7.0	4.0	4.8	7.0
Overall (%)	7.6	7.5	8.0	6.7	6.5	6.2	5.4	5.1	4.4	5.2	4.6	5.3	3.6	3.6	5.8

The highest change in vaccine coverage (from April 28th to May 5th) occurred in the 18 to 39, 40 to 44, 45 to 49 and 50 to 54 age groups in neighbourhoods with the highest COVID-19 incidence rate.

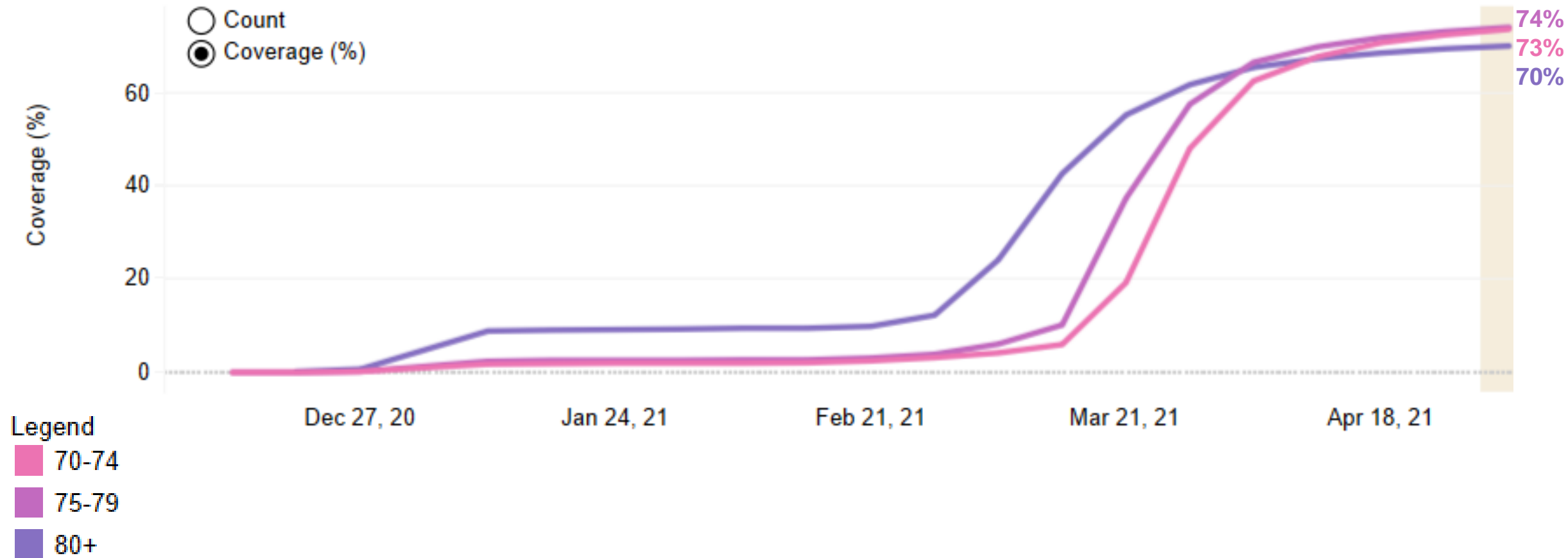
Legend: Change from previous week (percentage points)

COVID-19 episode dates: Dec 15, 2020 to Apr 23, 2021
 COVID-19 vaccination data: Dec 15, 2020 to May 5, 2021



Vaccine rates in seniors have plateaued

Number of people who have initiated vaccination by age group - Time trend



Legend
70-74
75-79
80+

- 18+ and living in 53 provincial hot spot postal codes are eligible for vaccination at City of Toronto and other COVID-19 vaccination clinics.
 - Community mobile or pop-up clinics serving a subset of 17 hot spot postal codes are also vaccinating 18+
- 50+ and older, individuals with high-risk health conditions and essential workers unable to work from home listed in the Province's Group One are able to book appointments for City-run clinics.
- Toronto residents 18+ can book vaccination appointments at participating pharmacies.

Progress with vaccination still requires vigilance

Confirmed symptomatic post-vaccination cases of COVID-19 by number of days between dose administration and symptom onset: Ontario, December 14, 2020 to April 17, 2021

