



Public Health Services COVID-19 Situation Report & Organizational Update

Board of Health

June 14, 2021

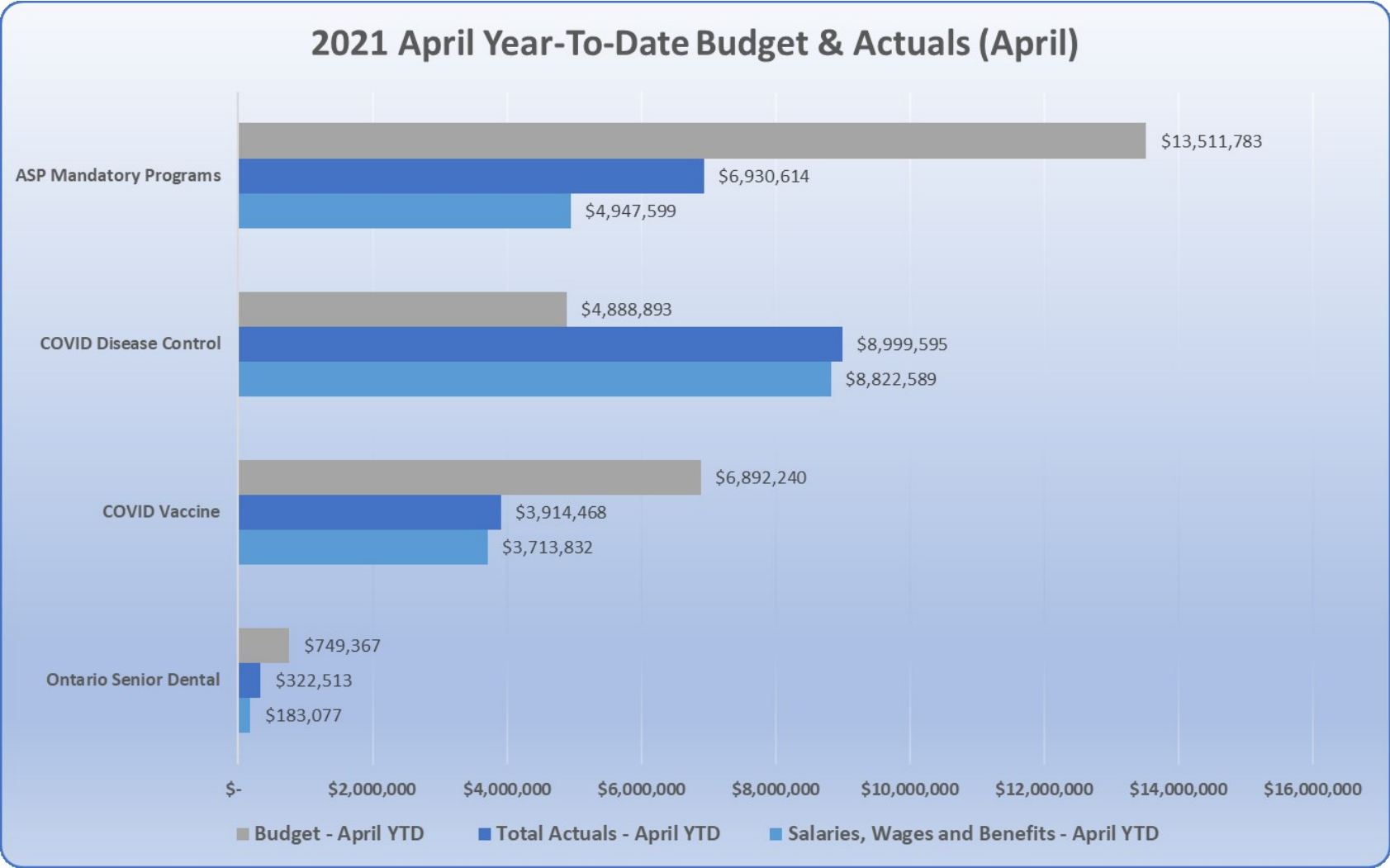
Overview

1. Overall Status Update
2. Financial Update
3. COVID-19 Situation Report
4. Scarsin Forecast Update
5. Performance Metrics
6. COVID-19 Vaccine Update

Overall Status

- COVID-19 case activity in Hamilton continues to trend downwards from the peak of wave 3
- Scarsin forecasting continues to be promising; however, there are several unknowns including the potential impact of the Delta variant
- It is crucial that as many people as possible are vaccinated with first and second doses over the coming months
- As of June 10, 2021 there were over 393,394 doses administered and 70.3% of Hamiltonians age 18+ vaccinated
- While the increase in vaccine eligibility & access is encouraging, there is significant work ahead to ensure equitable & fulsome vaccine uptake
- Public health measures remain vital, even for those who are vaccinated

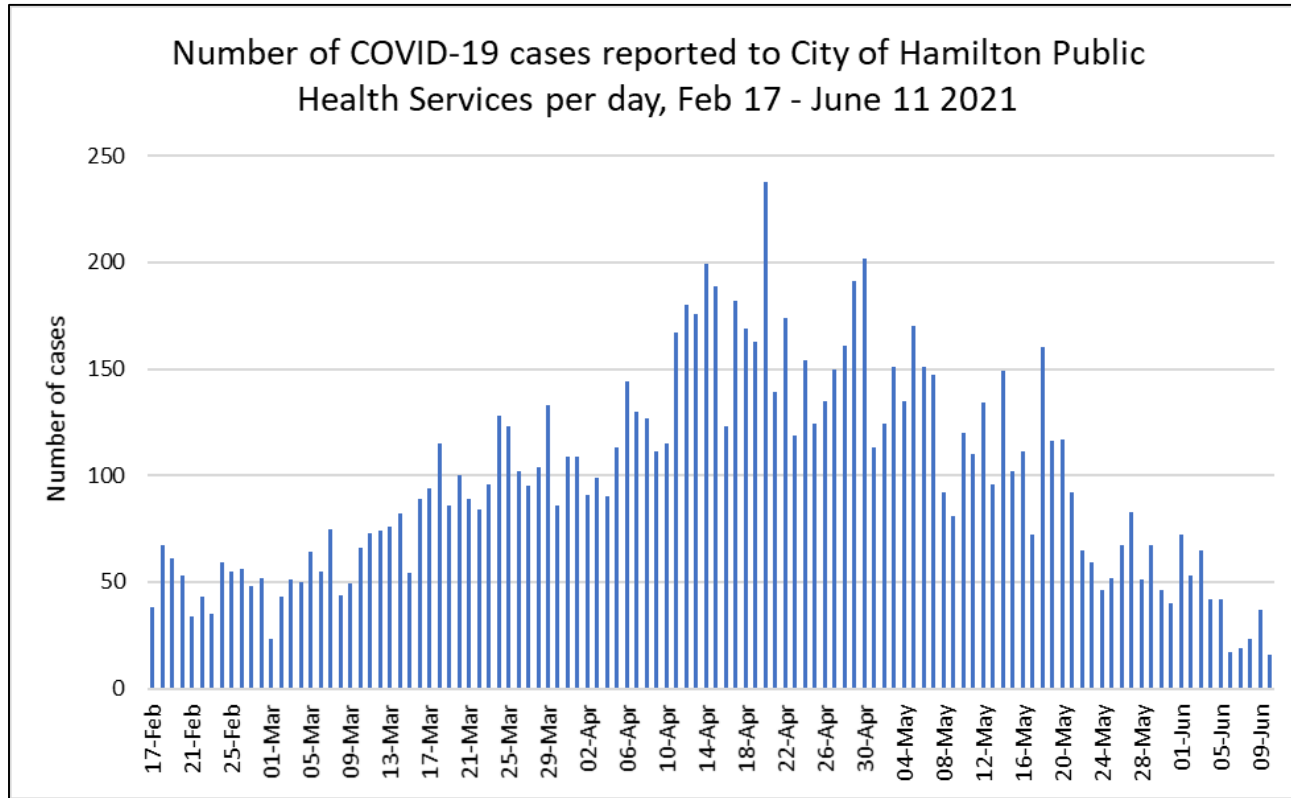
Financial Update – April 2021 Variance Report



Financial Update – April 2021 Variance Report

June 2, 2021 Budget & Actual FTE			
	Budget	Actual	Variance
COVID FTE	411.4	493.9	(82.4)
Maintaining Essential/High Risk Services FTE	394.5	189.9	204.6
Total FTE	805.9	683.8	122.1

Situation Report – Reported Cases



Key Messages

- COVID-19 case activity continues to trend downwards from the peak of wave 3
- As of June 11, 2021, the average number of cases reported per day to Hamilton Public Health is 35

Situation Report

Phases of COVID-19 in Hamilton

WAVE 3: Pre-Peak Feb 17 – Apr 10 2021

- 4,243 cases reported
- 131 outbreaks
- 302 hospitalizations and 59 deaths
- 59,120 tests completed at Hamilton Assessment Centres
- Case counts following wave 2 had not yet fallen back to baseline, when activity began to rise and wave 3 commenced
- Infections were most commonly due to direct contact with other known cases of COVID-19 and undetermined sources

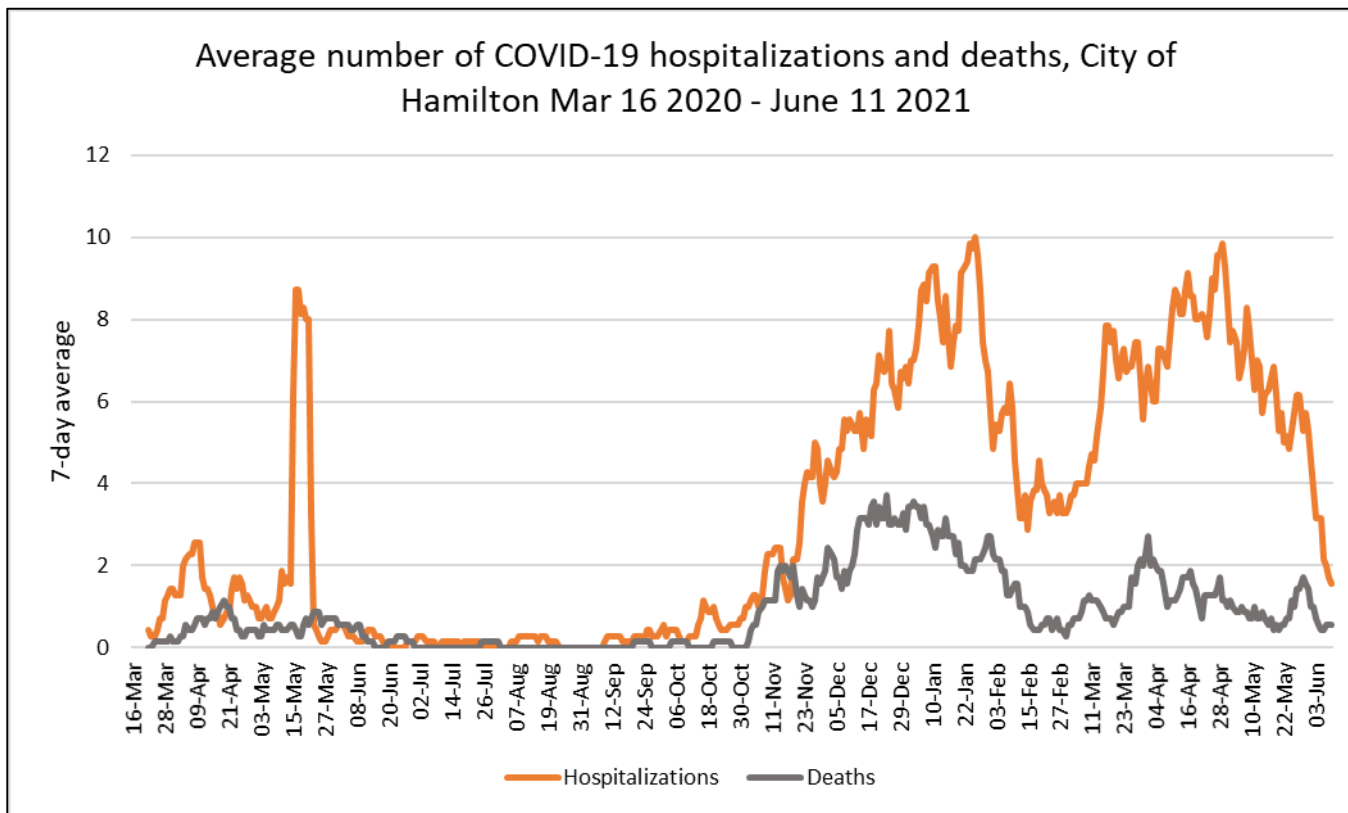
WAVE 3: Peak Apr 11 – May 7 2021

- 4,326 cases reported
- 94 outbreaks
- 225 hospitalizations and 34 deaths
- 34,171 tests completed at Hamilton Assessment Centres
- There was an increase in cases associated with COVID-19 outbreak activity
- The majority of cases reported shifted from the original strain to variants

WAVE 3: Post-Peak May 8 – Jun 11 2021

- 2,514 cases reported
- 59 outbreaks
- 150 hospitalizations and 27 deaths
- 26,006 tests completed at Hamilton Assessment Centres
- Infections have been most commonly due to direct contact with other known cases of COVID-19 and undetermined sources
- There have been more cases reported during wave 3 than waves 1 and 2 combined

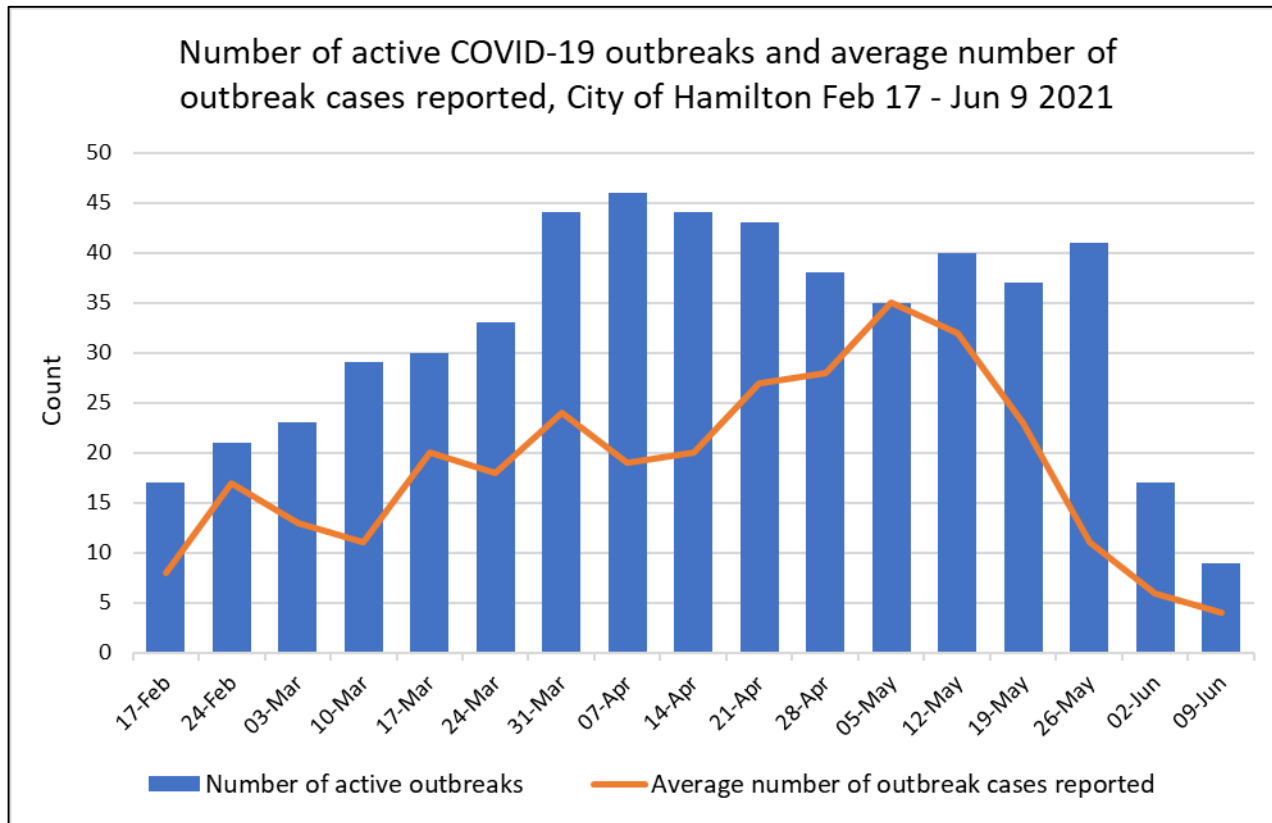
Situation Report – Severity



Key Messages

- The average numbers of new hospitalizations & deaths per day have been decreasing recently in the post-peak period of wave 3
- As of June 11, 2021, the average number of new hospitalizations per day was 2 and deaths per day was 0.7

Situation Report – Active Outbreaks



Key Messages

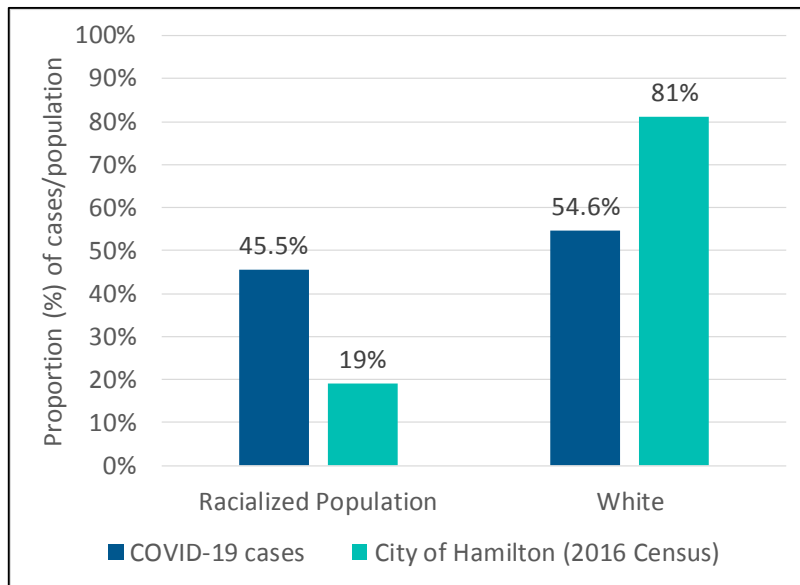
- There has been a drastic decrease in the number of active COVID-19 outbreaks throughout June 2021
 - The number of cases reported, associated with outbreaks, have also decreased dramatically

Situation Report

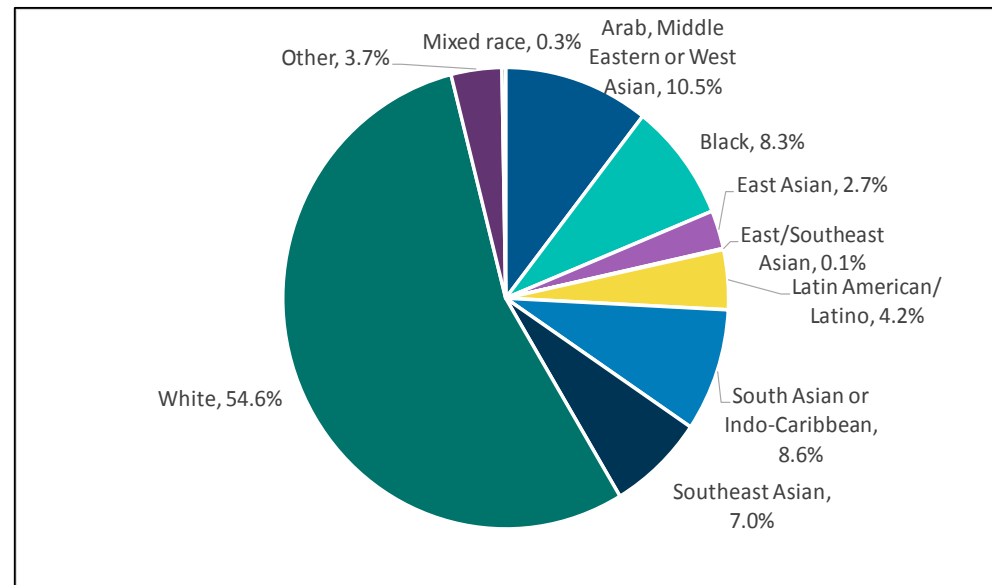
Social Determinants of COVID-19 Cases

- COVID-19 cases were more likely to self-identify as racialized compared to the Hamilton population

Proportion (%) of COVID-19 cases identifying as white or racialized population, City of Hamilton, March 1, 2020 – April 21, 2021.



Proportion (%) of COVID-19 cases by self-identified racial category, City of Hamilton, March 1, 2020 – April 21, 2021.

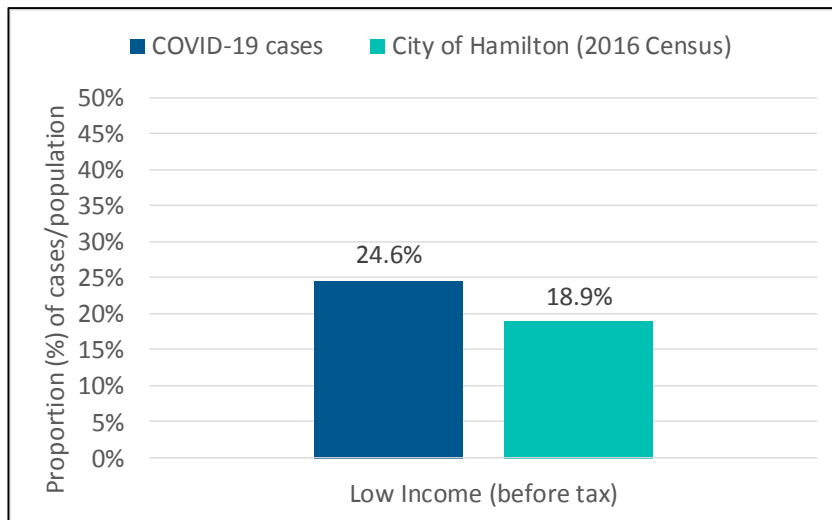


Situation Report

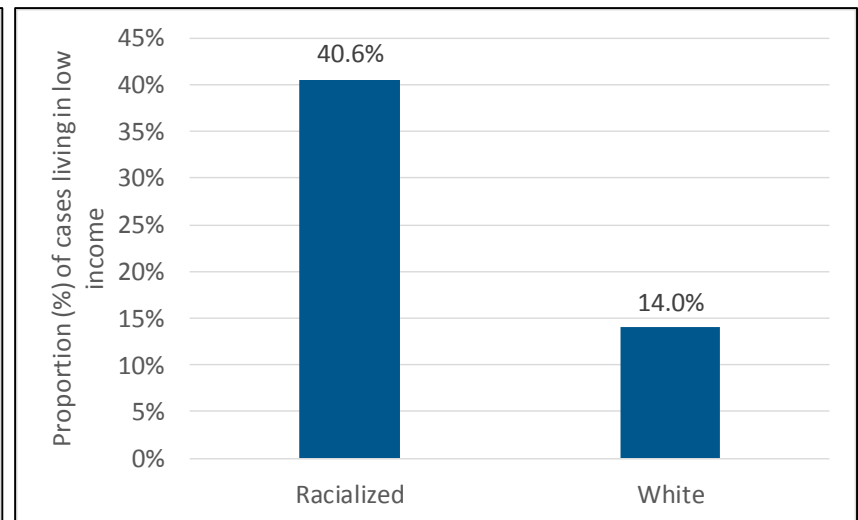
Social Determinants of COVID-19 Cases

- COVID-19 cases were more likely to live in low income households compared to the Hamilton population
- Racialized COVID-19 cases were 3-times more likely to live in low income households compared to white cases

Proportion (%) of COVID-19 cases living in low income households, City of Hamilton, Mar 1, 20 – Apr 21, 21.



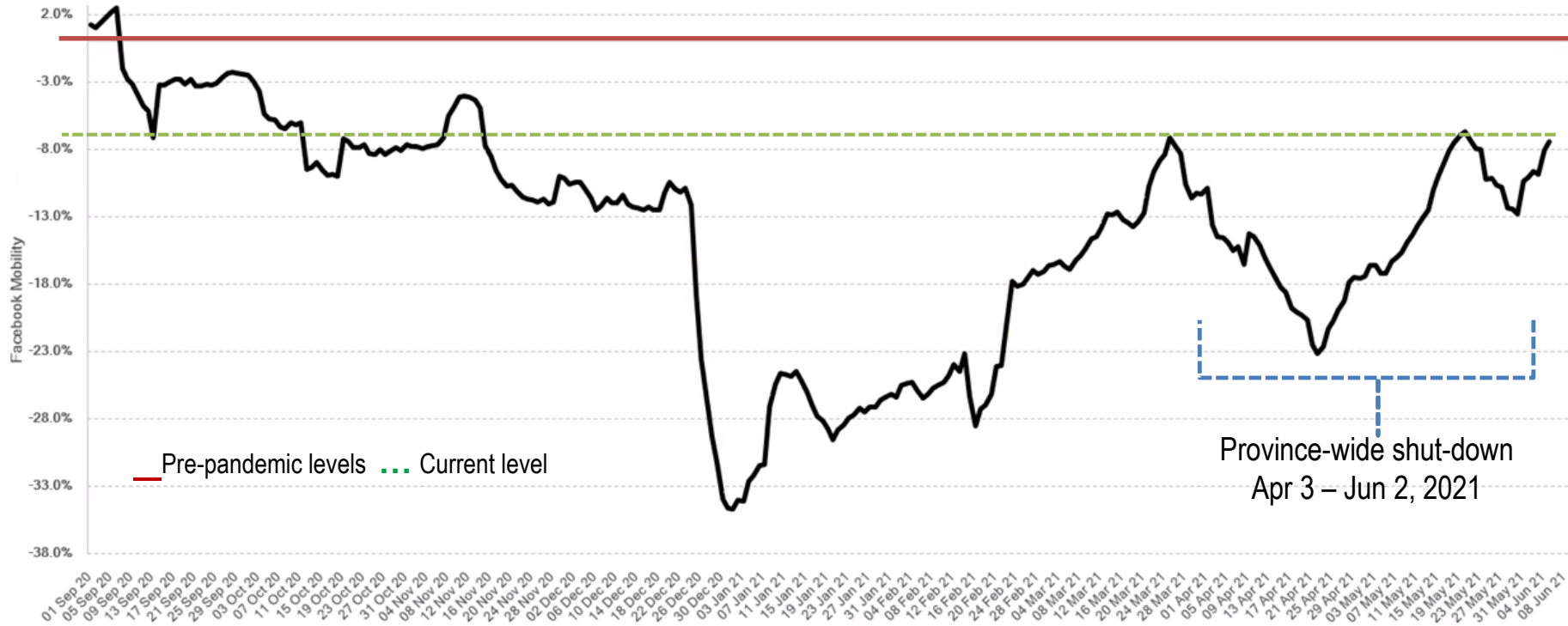
Proportion (%) of white and racialized COVID-19 cases living in low income households, City of Hamilton, Mar 1, 20 – Apr 21, 21.



Scarsin Forecast

- Future forecast continues to be promising assuming:
 - accelerated vaccination roll-out and vaccine inventory continues as planned
 - moderate increases in delta variant
 - adherence to public health measures
- Variants pose a significant unknown risk and could result in:
 - a “swell” of cases in July 2021
 - over 1000 additional cases between June 14, 2021 and July 31, 2021 (from 465 in the best-case scenario to 1518 cases in the worst-case scenario)

Scarsin Forecast – Overall Mobility in Hamilton



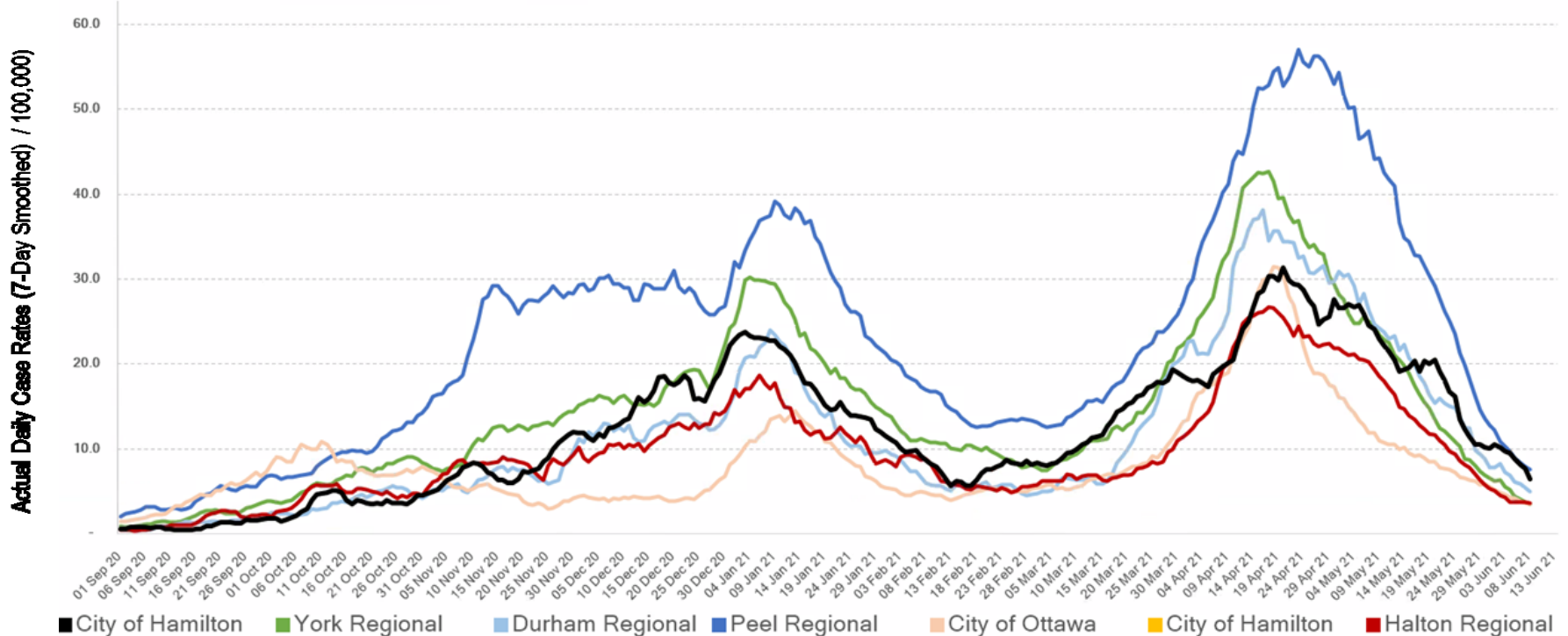
Data Source: Scarsin Decision Support System retrieved June 9, 2021

Key Messages:

- Mobility increased following the lifting of the shut-down on June 2, 2021 to approximately -8%, now above pre-shut-down levels. 0% represents pre-pandemic levels in February 2020.

Scarsin Forecast

COVID-19 Daily Case Rates (per 100,000) Selected Comparison Public Health Units to Hamilton



Data Source: Scarsin Decision Support System retrieved June 11, 2021

Key Messages:

- Wave 3 continues to decline; rates are converging across Ontario.

Scarsin Forecast – Overview of Scenarios

•Scenario 1

•Worst Case

- higher impact of delta variant
- reduced public health measures with reopening

Scenario 2

Best Case

- lower impact of delta variant
- continued public health measures with reopening

Both scenarios assume:

- Remote learning to end-of-school-year
- 12-week vaccine dosing schedule
- Immunity curve adjustments for vaccines
- Adjusted to account for Delta variant

Updated data:

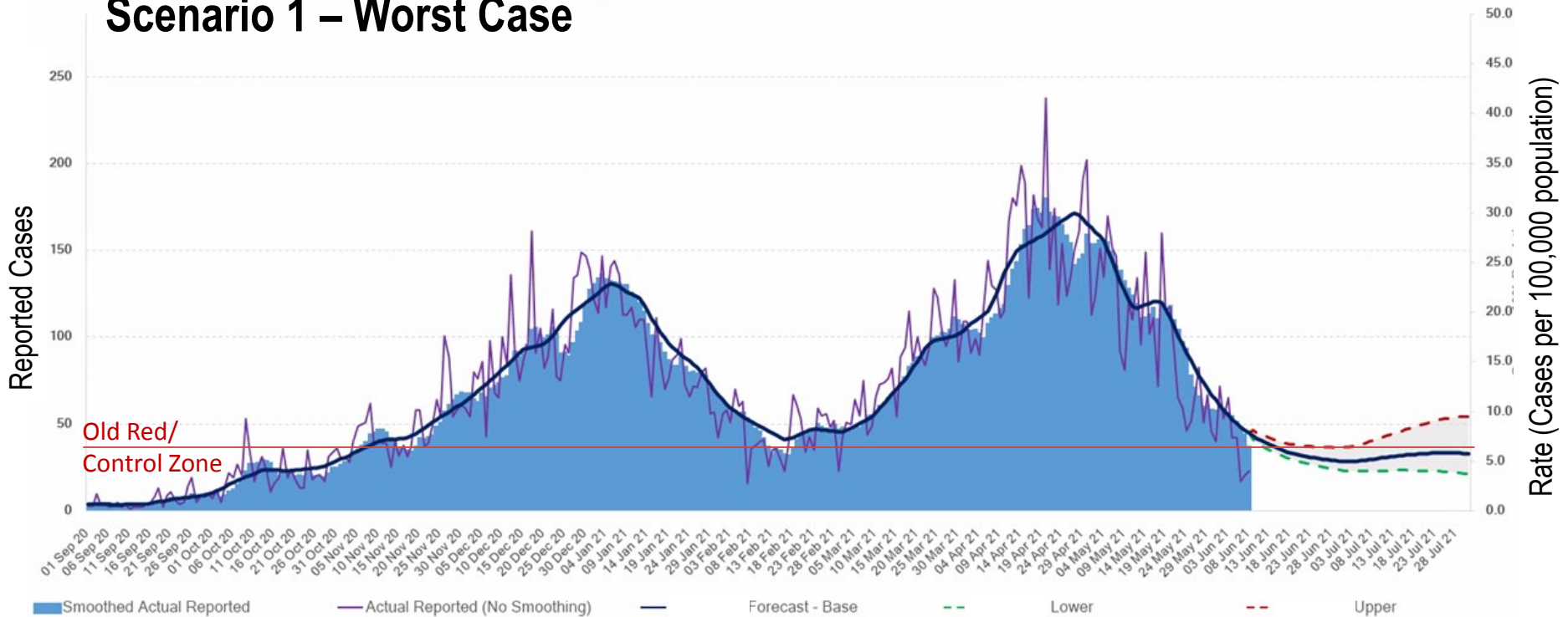
- Case data retrieved Thu June 10, 2021
- Mobility data
- Vaccination data retrieved Sun Jun 6, 2021

Same accelerated vaccination schedule:

- Adult vaccination 75% by June 21, 2021 (80+=85%; 60-79=80%; 20-59=72%)
- 12-19 vaccination 75% by June 28, 2021 (child vaccination started June 1, 2021)

Scarsin Forecast

Scenario 1 – Worst Case



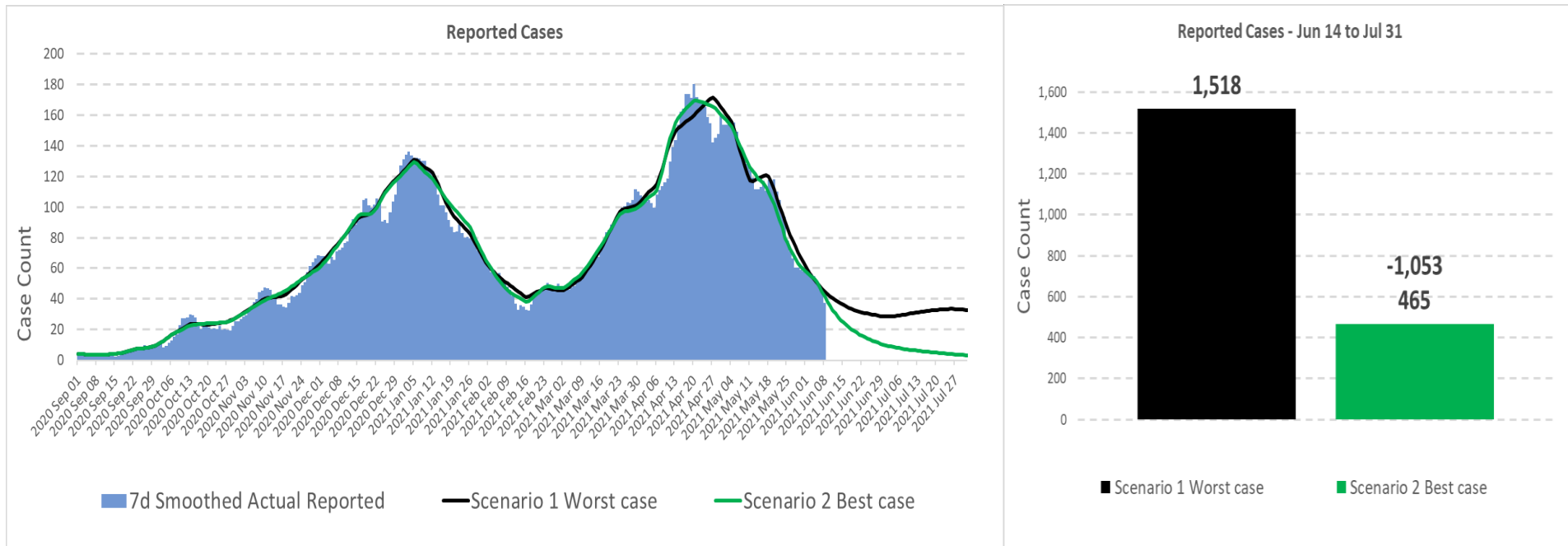
Data Source: Scarsin Decision Support System retrieved June 11, 2021

Key Messages:

- Forecast continues to predict we will reach case levels below the old Red/Control Zone with a potential “swell” starting in July 2021.

Scarsin Forecast

Scenario Comparisons – COVID-19 Cases



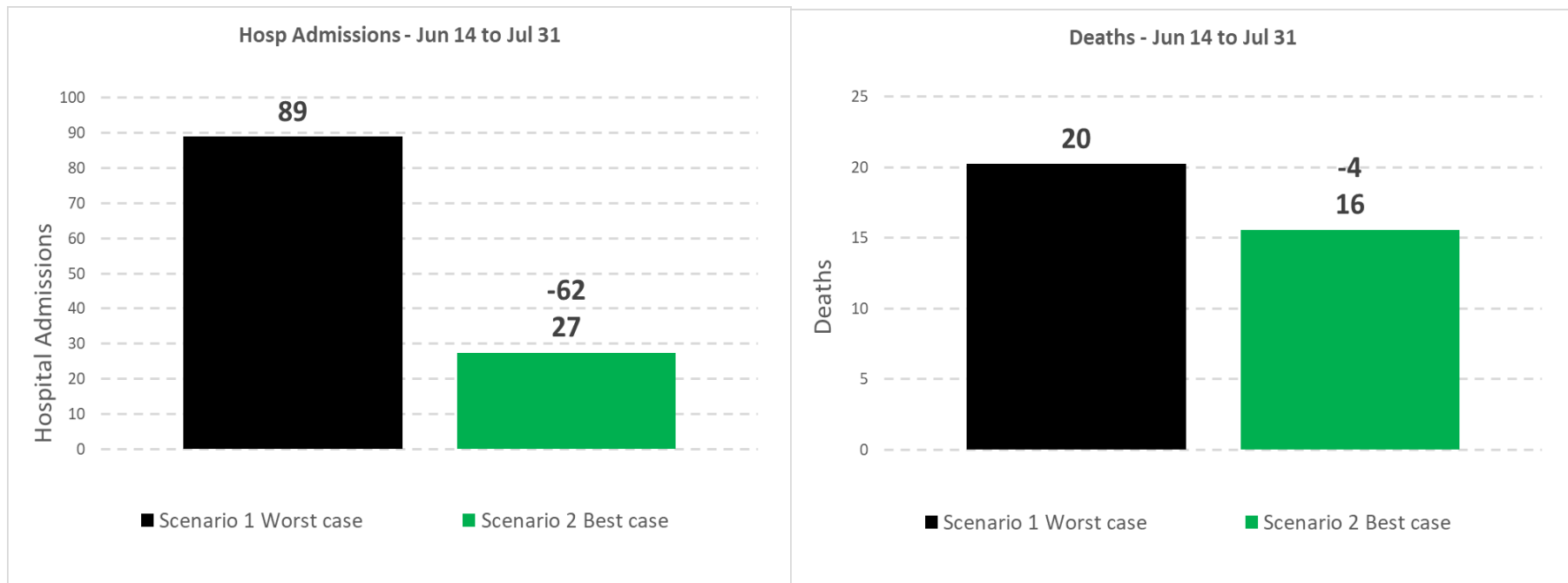
Data Source: Scarsin Decision Support System, scenarios created June 11, 2021

Key Messages:

- **Best case scenario** could result in the prevention of 1053 cases between June 14, 2021 and July 31, 2021, as compared to more aggressive transmission of delta variant and reduced public health precautions. The next few weeks will provide additional insight on the impact of Ontario’s reopening and potential spread of the delta variant.

Scarsin Forecast

Scenario Comparisons – COVID-19 Hospital Admissions and Deaths



Data Source: Scarsin Decision Support System, scenarios created June 11, 2021

Key Messages:

- **Best case scenario** could result in the prevention of 62 hospital admissions and 4 deaths between June 14, 2021 and July 31, 2021, as compared to more aggressive transmission of delta variant and reduced public health precautions.

Performance Metrics

Epidemiology

	Previous (May 28)	Previous (June 4)	CURRENT (June 11)	Trend
Weekly incidence rate/100,000	71	59	41	↓
% positivity	8.3%	6.0%	5.3%	↓
Effective reproductive number (R_t)	0.68	0.89	0.70	--
% of community-acquired cases	26.2%	28.3%	28.6%	--

Decrease in the number of active outbreaks. Total of 12 active outbreaks: 2 outbreaks have ≥ 10 cases. Outbreak activity continues to be most prevalent in workplaces and supportive housing.

Public Health System Capacity

	Previous (May 28)	Previous (June 4)	CURRENT (June 11)	Trend
% newly reported cases reached within 1 day of reported date	95.0%	98.8%	97.5%	--
% all newly identified high-risk contacts reached within 1 day of contact identification date	86.7%	87.3%	88.9%	--

Performance Metrics

Health System Capacity

	Hospital	Previous (May 28)	Previous (June 4)	CURRENT (June 11)
Overall adult acute medicine & surgical hospital occupancy/funded acute beds	SJHH	83%	80%	85%
	HHS	90%	90%	87%
Overall adult acute alternate level of care (ALC) hospital occupancy/funded acute beds	SJHH	9%	13%	14%
	HHS	7%	7%	8%
Overall adult intensive care unit (ICU) occupancy/funded ICU beds	SJHH	83%	76%	68%
	HHS	85%	73%	66%

SJHH: St. Joseph's Healthcare Hamilton

HHS: Hamilton Health Sciences

Performance Metrics

Vulnerable Populations

	Previous (May 28)	Previous (June 4)	CURRENT (June 11)	Trend
Mental health-related emergency department visits	177	192	197	↑
Substance misuse-related emergency department visits	80	84	110	↑
Paramedic incidents for suspected opioid overdose	19	17	30	--
Violence-related emergency department visits	8	8	12	--
Social impacts and environmental exposure-related emergency department visits	19	25	21	--

COVID-19 Vaccine Update

COVID-19 Vaccine Update

Overall Objectives

1. Prevent deaths
2. Prevent illness, hospitalization and intensive care unit admissions
3. Reduce transmission
4. Achieve high levels of population immunity

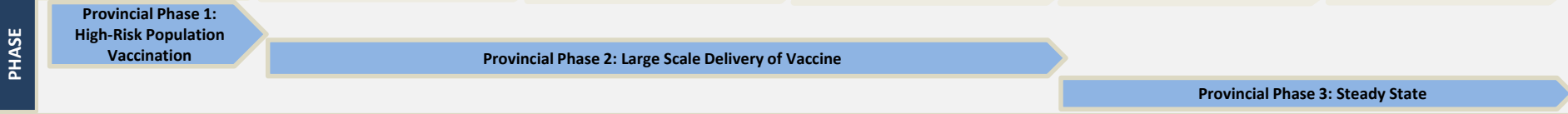


COVID-19 Vaccine Update – Placemat

HAMILTON COVID-19 VACCINATION PLAN: OVERVIEW

TIMING OF VACCINE ROLLOUT (INCLUDING DATES OF EACH PHASE & CLINIC OPERATION) ARE SUBJECT TO CHANGE & ARE DEPENDENT ON PROVINCIAL DIRECTION AND/OR AVAILABLE SUPPLY OF VACCINE

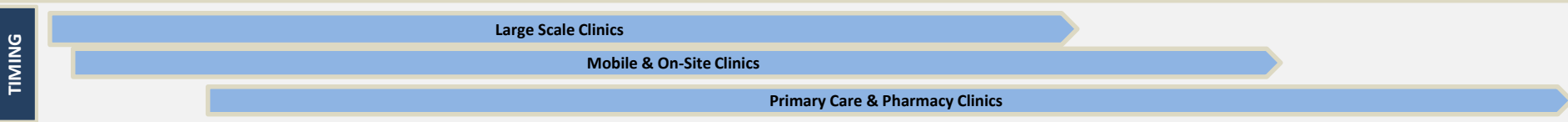
Dec 2020 – March 2021 April – June 2021 July 2021 August 2021 September 2021 Beyond






Provincial Priority Populations by Phase

DESCRIPTION	Phase 1 <ul style="list-style-type: none"> Staff, essential caregivers, residents in LTC/RH, congregate settings for seniors Alternate level of care patients Health care workers All Indigenous adults Adults 80 years of age and older Adult recipients of chronic home care 	Phase 2 (in Progress) <ul style="list-style-type: none"> Adults 18+ Youths 12-17 Accelerated 2nd doses for high-risk health care workers, individuals 70+ and individuals who received their 1st dose on or before April 18th 	Phase 3 <ul style="list-style-type: none"> Remaining Hamiltonians in the general population who wish to be vaccinated will receive the vaccine
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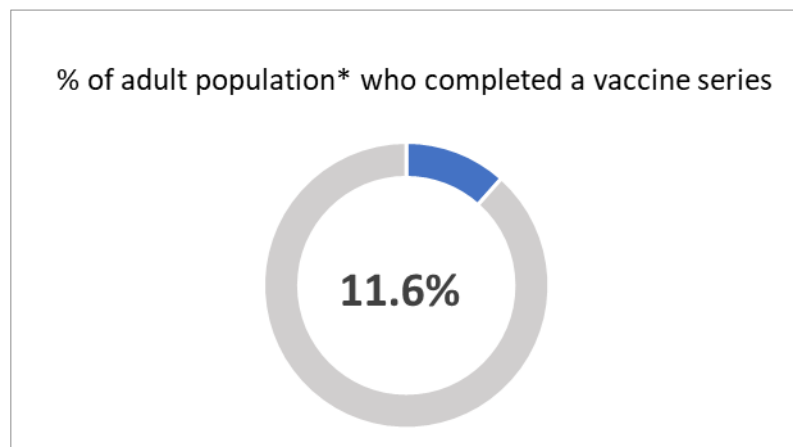
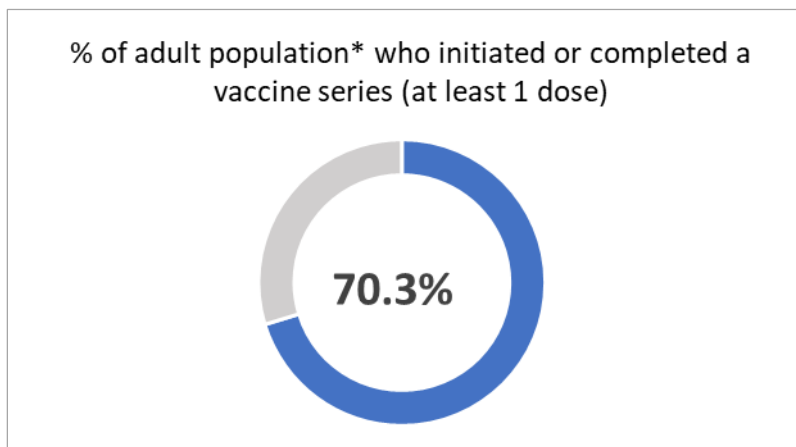
Vaccination Approach



DESCRIPTION	<p>Large Scale Clinics</p> <p>Hamilton Health Sciences Large Scale Clinic St. Joseph's Healthcare Hamilton Large Scale Clinic First Ontario Centre (Public Health-Led) Large Scale Clinic</p> <p> Anticipated Throughput: 8,400 doses / day at peak Supports large scale vaccination of the population</p>	<p>Mobile & On-Site Clinics</p> <p>Mobile Bus Clinics Pop-Up Facility Clinics Rolling Clinics</p> <p> Anticipated Throughput: 750 doses / day at peak Provides vaccination through accessible channels</p>	<p>Primary Care & Pharmacy Clinics</p> <p>Primary care practice-based vaccinations Pharmacy-based vaccinations</p> <p> Anticipated Throughput: >1,000 doses / day at peak Provides vaccination through usual channels</p>
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COVID-19 Vaccine Update - Coverage

Estimated as of End Of Day June 10, 2021



*Hamilton residents age 18+ (n=482,542); Population Projections, 2020 (IntelliHealth).

Note: Includes Hamilton residents and individuals vaccinated in Hamilton who cannot be assigned to a health unit region.

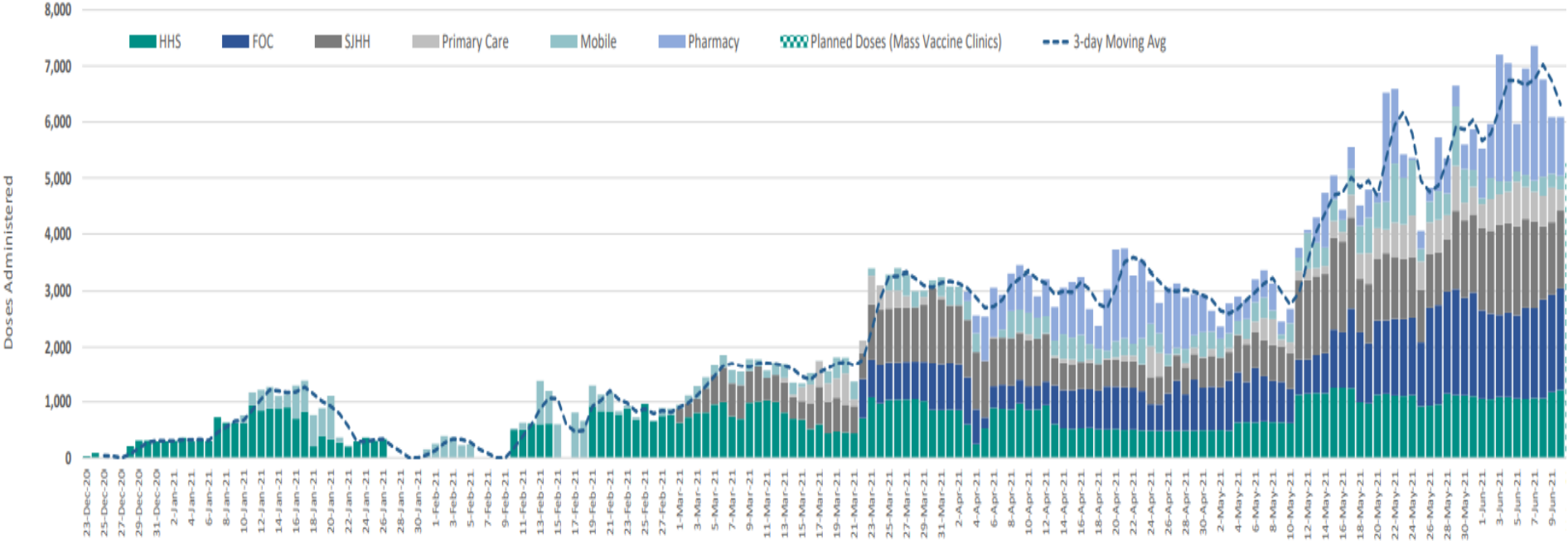
Please note:

The methodology to estimate vaccine coverage has been revised to align with the provincial methodology. The change will be reflected on the webpage the afternoon of June 14, 2021. The change increases the previous estimate of vaccine series initiation from **68.3%** to **70.3%**.

COVID-19 Vaccine Update - Distribution

Product	Total doses administered
Pfizer	290,794
Moderna	65,465
AstraZeneca	37,135

Estimated as of End Of Day June 10, 2021



Source: IntelliHealth (COVAXon Data Load)

COVID-19 Vaccine Update – Coverage by Age

Estimated Vaccine Coverage by Age (End of Day June 10, 2021)

Age Group	Est Population Size	Vaccine Series Initiation	% Vaccine Series Initiation
85+ Years	15,241	13,172	86.4%
80 to 84 Years	13,078	11,719	89.6%
75 to 79 Years	18,379	16,205	88.2%
70 to 74 Years	26,916	23,592	87.7%
65 to 69 Years	32,737	27,327	83.5%
60 to 64 Years	39,521	31,889	80.7%
55 to 59 Years	43,070	32,977	76.6%
50 to 54 Years	37,634	28,047	74.5%
45 to 49 Years	35,355	24,534	69.4%
40 to 44 Years	36,318	24,031	66.2%
35 to 39 Years	40,307	25,265	62.7%
30 to 34 Years	43,749	25,469	58.2%
25 to 29 Years	46,186	24,993	54.1%
18 to 24 Years	54,051	30,082	55.7%
12 to 17 Years	37,018	16,641	45.0%

Source: IntelliHealth (COVAXon Data Load); Population Projections, 2020 IntelliHealth.

Note: Includes Hamilton residents and individuals vaccinated in Hamilton who cannot be assigned to a health unit region.

COVID-19 Vaccine Update – Coverage by Forward Sortation Area (FSA)

Estimated Vaccine Coverage by Forward Sortation Area (All Ages) (End of Day June 6, 2021)			
FSA	Est Population Size	Vaccine Series Initiation	% Vaccine Series Initiation
L8B	21,529	12,430	57.7%
L8E	44,981	22,776	50.6%
L8G	23,005	13,516	58.8%
L8H	28,146	12,941	46.0%
L8J	30,205	15,228	50.4%
L8K	34,147	17,959	52.6%
L8L	34,905	15,814	45.3%
L8M	14,639	7,145	48.8%
L8N	16,234	8,476	52.2%
L8P	24,537	15,298	62.3%
L8R	13,674	6,720	49.1%
L8S	15,100	9,376	62.1%
L8T	20,548	11,896	57.9%
L8V	22,321	12,584	56.4%
L8W	28,179	15,704	55.7%
L9A	27,176	15,139	55.7%
L9B	26,693	15,541	58.2%
L9C	43,824	26,953	61.5%
L9G	26,323	16,810	63.9%
L9H	33,489	22,445	67.0%
L9K	16,852	10,112	60.0%
LOR	43,672	27,563	63.1%
Average	590,179	332,426	56.3%

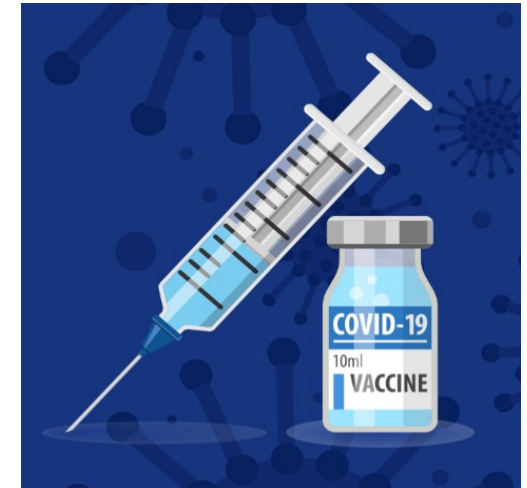
Source: IntelliHealth (COVAXon Data Load); ICES 03 Apr 2021 (total population)

Notes:

1. Coverage estimates are for all ages and include ages in the estimated population size that may not be eligible for vaccination. Estimates are therefore lower than overall coverage for the adult (18+) population.
2. The number vaccinated and estimated population size only include residents of the City of Hamilton even though some FSAs are shared between health units. N1R and N0B are not included at this time.
3. The estimated population size for LOR was estimated to only include Hamilton residents and should be used with caution.

COVID-19 Vaccine Update – Eligibility

- 1st Dose Eligibility
 - All aged 12+ who want a vaccine
- Accelerated 2nd Dose Eligibility
 - Aged 70+
 - Anyone vaccinated on or before April 18, 2021
- AstraZeneca
 - 8-week 2nd dose interval
 - 1st doses still on pause



COVID-19 Vaccine Update – Supply & Distribution

- Supply beginning to equal demand
- Focus remains: ensuring city-wide access, building vaccine confidence and getting rates up
- Most Hamiltonians are being vaccinated through large-scale clinics
 - Community clinics led by primary care and community partners
 - Public Health Mobile Clinics

COVID-19 Vaccine Update – Pharmacy Channel

- Significant growth in pharmacy channel
- Currently 100+ pharmacies delivering vaccine in Hamilton
 - Pfizer (1st and 2nd dose)
 - Moderna (1st and 2nd dose)
 - AztraZeneca (2nd dose)
- Goal to have all Universal Influenza Immunization Program (UIIP) pharmacies delivering vaccine

COVID-19 Vaccine Update – Youth Vaccination Strategy

- Flexible approach to support choice, increase access
 - Multiple channels available (large scale, mobile, pharmacy)
 - Specialized clinic for youth with complex needs
- 2nd dose to be completed by end of August 2021 before return to school for youth 12+

COVID-19 VACCINE
for youth



COVID-19 Vaccine Update – Access & Confidence

Continued focus on evidence-based, sustainable strategies to bridge gaps in vaccine information, build confidence, ensure access and increase uptake

- Optimize access through mobile pop-up clinics including:
 - Ministry of Health outdoor clinics:
 - June 9 & 10, 2021 → Central Memorial Recreation Centre
 - June 12 & 13, 2021 → Lake Avenue Elementary School
 - Youth focused mobile pop-up clinics June 8, 2021 to June 14, 2021
 - Homebound individuals through Hamilton Paramedic Services (second doses)

COVID-19 Vaccine Update – Access & Confidence

Ministry Mobile Clinics

- Additional outdoor mobile clinics this week
- Pfizer vaccine, aged 12+, first and eligible 2nd doses

Date	Location	Booking
June 15 & 16, 2021	Stoney Creek Recreation Centre	Call the COVID-19 vaccine hotline at 905-974-9848, option 7

COVID-19 Vaccine Update – Access & Confidence

Vaccine Ambassador Initiative

- Engagement with Faith-Based leaders to support vaccine confidence
- Promotion of mobile pop-up clinics and assistance with vaccine appointment booking with:
 - Residents of nearby apartment buildings
 - Business owners and ethnic stores
 - Corktown and Stinson neighbourhoods
- Social media outreach including community WhatsApp groups, to share key messages and resources
- Creating videos in multiple languages
- Attendance at clinics to provide on-site support, including translation



COVID-19 Vaccine Update – Access & Confidence

Outreach to apartment buildings and multi-unit property managers and tenants

- Infection prevention and control education sessions for Hamilton Halton District Apartment Association
- Information package for property managers and tenants including postcards, lobby posters and fact sheets
- Outreach to CityHousing Hamilton to identify specific needs at various buildings
- Engagement with neighbourhood associations and nearby multi-unit housing to promote mobile pop-up vaccine clinics

HOW TO REDUCE THE SPREAD OF COVID-19 IN APARTMENTS

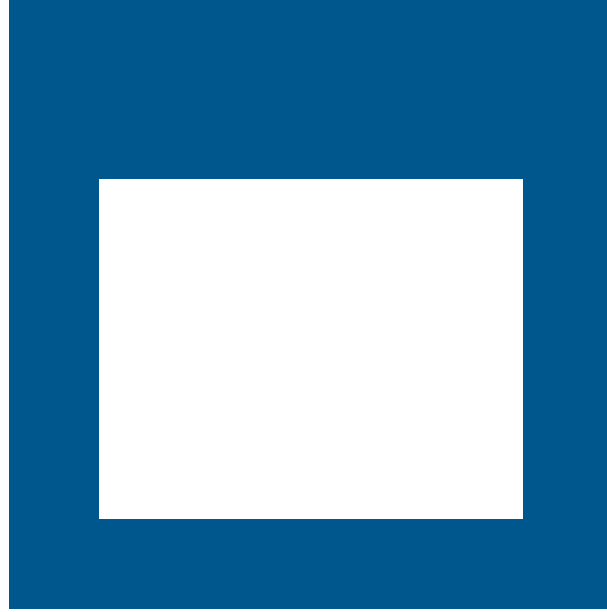
- Everyone has a role in helping to reduce the spread of COVID-19.
- It is important that everyone continues to follow public health measures, even people who have been vaccinated.
- COVID-19 vaccines are one of the most effective prevention tools to protect yourself and your loved ones from COVID-19. Book a COVID-19 vaccine appointment by visiting hamilton.ca/vaccinebooking or call 1-888-999-6488.

TENANTS

What can you do if you live in an apartment building?

- Stay home if you have any symptoms of COVID-19.
- Get tested for COVID-19 if you have any symptoms or if you had close contact with someone who has COVID-19.
- Only gather/socialize with people who you live with (in your unit). If you live alone, you can join one other household. Do not visit other apartments or units in your building unless you are there for essential reasons.
- Do not gather in common areas such as the lobby and hallways.
- Maintain a physical distance of at least 6 feet or 2 metres from people who do not live in your unit.
- Only take the elevator with people who live in your unit unless you can keep a physical distance of 2 metres from others. Wait for the next elevator to avoid close contact with others.
- Take the stairs when you can.
- Use common areas, such as the laundry room, when they are not busy so you can keep a distance of 2 metres from others.
- Connect with friends and neighbours on the phone or on social media.
- Wear a mask or face covering indoors in all common areas of the building, such as elevators, lobbies, laundry rooms, etc. Wear a mask outdoors when you are not able to maintain physical distancing.
- Avoid touching your eyes, mouth and nose. Wash your hands frequently.
- Avoid touching elevator buttons, buzzer or keypads, door handles, mailboxes and other high touch surfaces when you can.
- If you do touch something, don't touch your mouth, nose or eyes until you wash your hands with soap and water or use hand sanitizer.
- Always wash your hands with soap and water when you return to your unit, even if you have only been somewhere inside your building.
- Cough or sneeze into a tissue or your elbow. Throw out tissues into a lined garbage can.
- Clean and disinfect high-touch surfaces both outside (such as door handle of your unit, door frame) and inside (such as counters, taps, toilets) your unit using a disinfectant spray or diluted bleach and water.
- Stay informed. Read updates from the Landlord and Property Manager and contact building staff if you have questions.

Hamilton



QUESTIONS?