



# Public Health Services COVID-19 Situation Report & Organizational Update

Board of Health

March 22, 2021






# Overview

1. Overall Status Update
2. Provincial Response Framework & Metrics
3. COVID-19 Situation Report
4. Hamilton COVID-19 Response Table Updates
5. COVID-19 Vaccine Update

# Overall Status

- COVID-19 case activity is increasing in Hamilton. The percentage of cases that have screened positive for variants is also increasing: 30% as of March 19, 2021
- Rollout of the vaccination program continues – as of March 18, 2021 there were 64,196 doses administered across the City
- Focus will continue to be on Ministry of Health prioritized groups through Phase 1 and 2 (phase 2 runs to August, 2020)
- Continuing to follow public health measures is vital as these are the best protection against the variants of concern

# Provincial Response Framework Indicators

 <b>PREVENT</b> (Standard Measures)	 <b>PROTECT</b> (Strengthened Measures)	 <b>RESTRICT</b> (Intermediate Measures)	 <b>CONTROL</b> (Stringent Measures)	 <b>LOCKDOWN</b> (Maximum Measures)
<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>Weekly incidence rate is &lt; 10 per 100,000</li> <li>% positivity is &lt; 0.5</li> <li>Rt &lt; 1</li> <li>Outbreak trends/ observations</li> <li>Level of community transmission/non-epi linked cases stable</li> </ul> <p><b>Health System Capacity</b></p> <ul style="list-style-type: none"> <li>Hospital and ICU capacity adequate</li> </ul> <p><b>PH System Capacity</b></p> <ul style="list-style-type: none"> <li>Case and contact follow up within 24 hours adequate</li> </ul>	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>Weekly incidence rate is 10 to 24.9 per 100,000</li> <li>% positivity is 0.5-1.2%</li> <li>Rt is approximately 1</li> <li>Repeated outbreaks in multiple sectors/settings OR increasing/# of large outbreaks</li> <li>Level of community transmission/non-epi linked cases stable or increasing</li> </ul> <p><b>Health System Capacity</b></p> <ul style="list-style-type: none"> <li>Hospital and ICU capacity adequate</li> </ul> <p><b>PH System Capacity</b></p> <ul style="list-style-type: none"> <li>Case and contact follow up within 24 hours adequate</li> </ul>	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>Weekly incidence rate is 25 to 39.9 per 100,000</li> <li>% positivity is 1.3-2.4%</li> <li>Rt is approximately 1 to 1.1</li> <li>Repeated outbreaks in multiple sectors/settings, increasing/# of large outbreaks</li> <li>Level of community transmission/non-epi linked cases stable or increasing</li> </ul> <p><b>Health System Capacity</b></p> <ul style="list-style-type: none"> <li>Hospital and ICU capacity adequate or occupancy increasing</li> </ul> <p><b>PH System Capacity</b></p> <ul style="list-style-type: none"> <li>Case and contact follow up within 24 hours adequate or at risk of becoming overwhelmed</li> </ul>	<p><b>Epidemiology</b></p> <ul style="list-style-type: none"> <li>Weekly incidence rate <math>\geq</math> 40 per 100,000</li> <li>% positivity <math>\geq</math> 2.5%</li> <li>Rt is <math>\geq</math> 1.2</li> <li>Repeated outbreaks in multiple sectors/settings, increasing/# of large outbreaks</li> <li>Level of community transmission/non-epi linked cases increasing</li> </ul> <p><b>Health System Capacity</b></p> <ul style="list-style-type: none"> <li>Hospital and ICU capacity at risk of being overwhelmed</li> </ul> <p><b>PH System Capacity</b></p> <ul style="list-style-type: none"> <li>Public health unit capacity for case and contact management at risk or overwhelmed</li> </ul>	<p>Trends continue to worsen after measures from Control level are implemented.</p>

# Provincial Response Framework Indicators

## Epidemiology

	Previous (Mar 5)	Previous (Mar 12)	CURRENT (Mar 19)	Trend
Weekly incidence rate/100,000	55	68	89	↑
% positivity	2.2%	2.8%	3.5%	↑
Effective reproductive number ( $R_t$ )	1.03	1.15	1.14	--
% of community-acquired cases	24.0%	29.6%	30.0%	--

Outbreak activity continues in long-term care homes, retirement homes, hospitals, schools, workplaces, and congregate settings.

Total of 32 active outbreaks; 8 outbreaks have  $\geq 10$  cases; 12 outbreaks have cases screened positive for variants. |

## Public Health System Capacity

	Previous (Mar 5)	Previous (Mar 12)	CURRENT (Mar 19)	Trend
% newly reported cases reached within 1 day of reported date	90.1% 302/335	94.3% 380/403	93.3% 499/535	--
% newly identified close contacts reached within 1 day of contact identification date	82.4% 875/1062	81.7% 1186/1452	63.0% 1083/1718	↓

# Provincial Response Framework Indicators

## Health System Capacity

	Hospital	Previous (Mar 5)	Previous (Mar 12)	CURRENT (Mar 19)
Overall adult acute medicine & surgical hospital occupancy/funded acute beds	SJHH	92%	94%	101%
	HHS	105%	104%	104%
Overall adult acute alternate level of care (ALC) hospital occupancy/funded acute beds	SJHH	29%	24%	24%
	HHS	11%	12%	13%
Overall adult critical care occupancy/funded intensive care unit (ICU) beds	SJHH	94%	89%	70%
	HHS	87%	91%	95%

**SJHH:** St. Joseph's Healthcare Hamilton

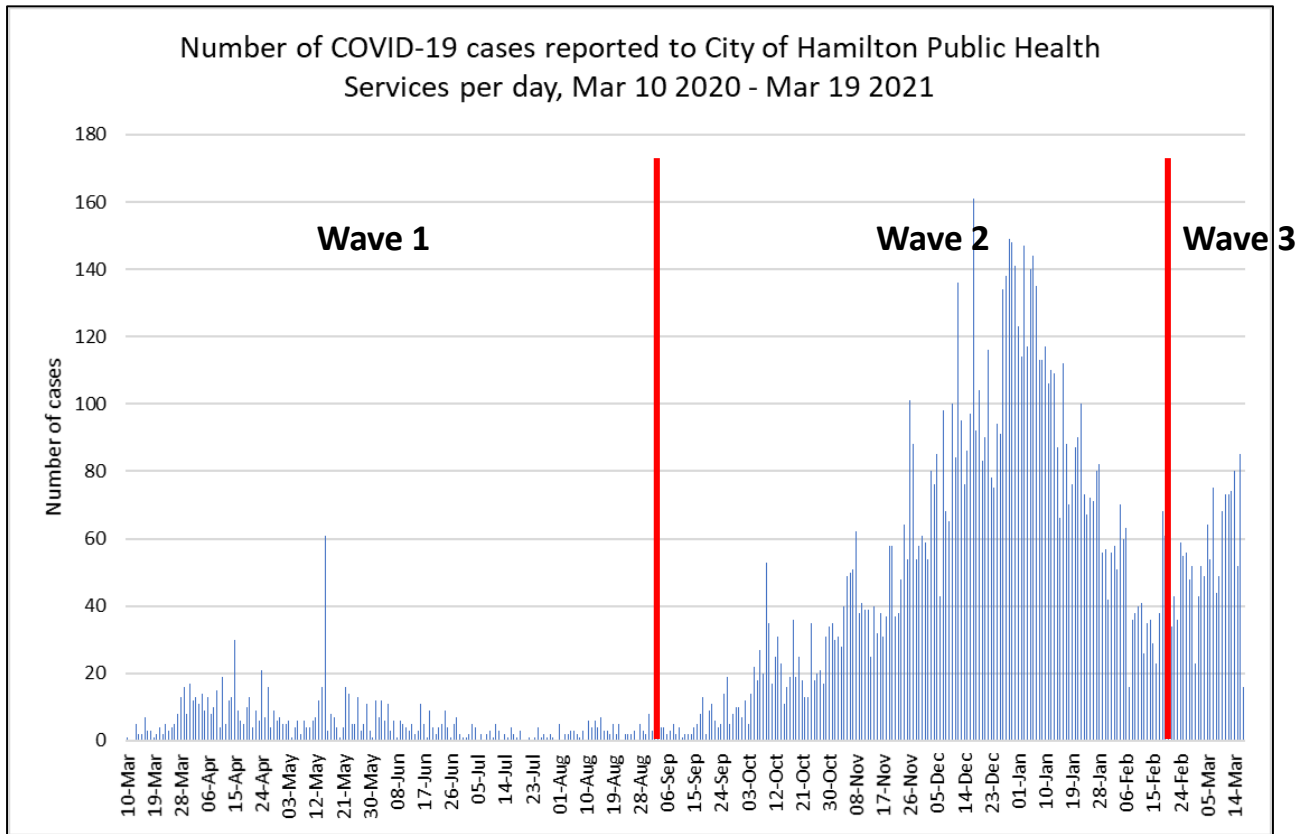
**HHS:** Hamilton Health Sciences

# Additional Local Indicators

	Previous (Mar 5)	Previous (Mar 12)	CURRENT (Mar 19)	Trend
Mental health-related emergency department visits	191	187	207	↑*
Police response to persons in crisis	131	118	116	--
Substance misuse-related emergency department visits	100	81	87	↑*
Paramedic incidents for suspected opioid overdose	18	16	14	--
Violence-related emergency department visits	4	7	5	--
Police response to domestic violence	144	106	112	--
Social impacts and environmental exposure-related emergency department visits	16	20	12	--

\*The trend is based on comparison to historical data and thresholds.

# Reported Cases



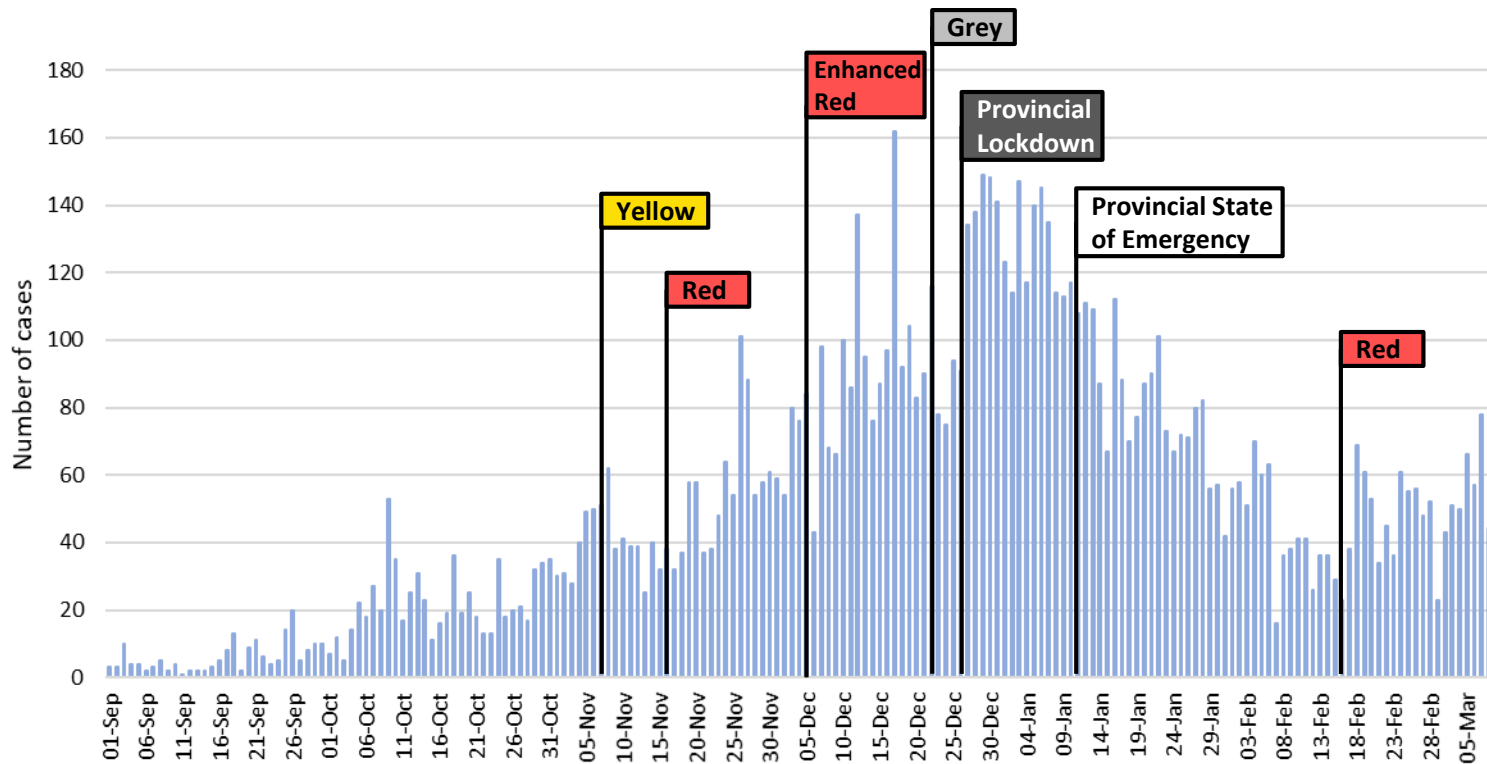
## Key Messages

- COVID-19 case activity has been increasing since the end of wave 2
- As of Mar 19, 2021 the average number of cases reported per day to Hamilton Public Health is 76



# COVID-19 in Hamilton: Wave 2

Number of COVID-19 cases reported to public health per day, City of Hamilton Sept 1 2020 - Feb 16 2021 (Wave 2)



**8,937**  
cases

**217**  
outbreaks

**610**  
hospitalizations

**231**  
deaths

**163,387**  
tests  
completed

# Phases of COVID-19 in Hamilton

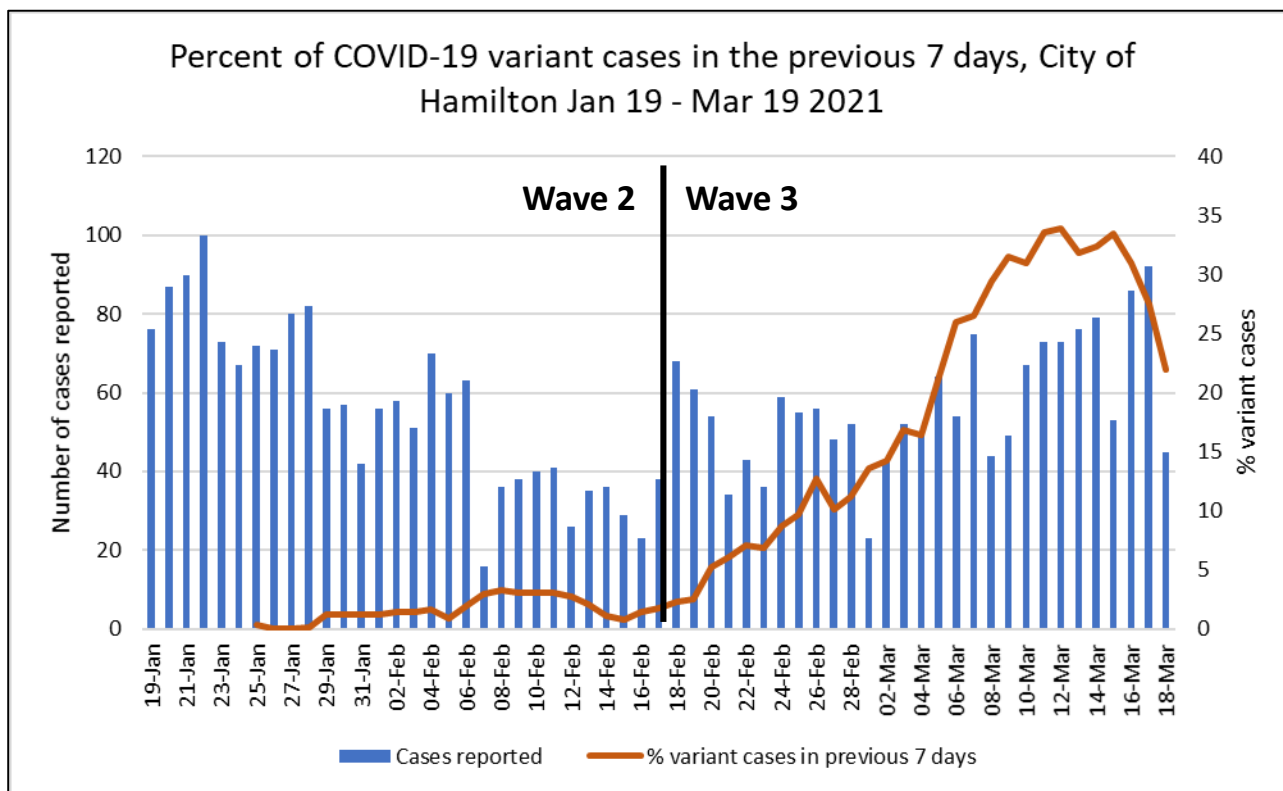
## **WAVE 2: Pre-Peak** Sept 1 – Dec 31 2020

- 5,286 cases reported
- 124 outbreaks
- 295 hospitalizations and 132 deaths
- 115,683 tests completed at Hamilton Assessment Centres
- Early in wave 2, in Sept/Oct 2020, infections were most commonly due to direct contact with other known cases of COVID-19 and undetermined sources
- Closer to the peak of wave 2, in Nov/Dec 2020, infections were most commonly due to direct contact with other known cases as well as outbreak activity

## **WAVE 3: Pre-Peak** Feb 17 – Mar 19 2021

- 1,701 cases reported
- 59 outbreaks
- 124 hospitalizations and 23 deaths
- 31,896 tests completed at Hamilton Assessment Centres
- Thus far in wave 3, infections have been mainly due to direct contact with other cases, undetermined sources & outbreak activity
- There has been an increase in COVID-19 variant cases throughout wave 3 in Hamilton
- Hamilton continues to be in the red - control zone of the Provincial Reopening Framework

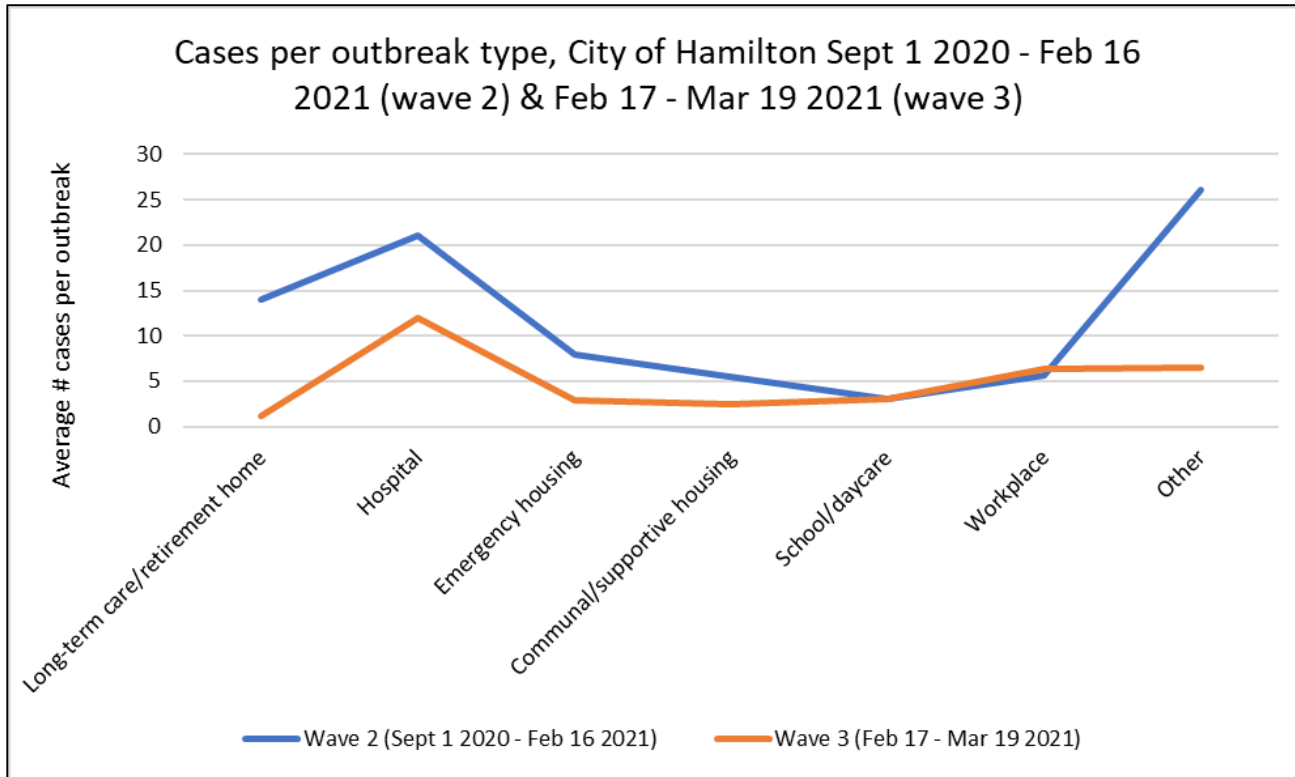
# COVID-19 Variant Cases in Hamilton



## Key Messages

- Hamilton Public Health recorded its first variant case on Jan 19 2021; variant activity has been rising steadily since then
- As of Mar 19, 2021 variants comprise greater than 30% of newly reported Hamilton COVID-19 cases

# Number of COVID-19 Outbreaks by Facility Type



## Key Messages

- Although outbreaks continue to be declared in wave 3 thus far, there have been noticeable decreases in the average number of cases per outbreak
- Decreases have been observed in long-term care/retirement home, hospital, and emergency housing settings

# Hamilton COVID-19 Response Table Update

- Provide ongoing support to business community to understand and ensure compliance with the Reopening Ontario Act as well as sharing information on variants of concern, vaccination and prevention of outbreaks
- Continue to adapt to provincial testing direction and ensure adequate capacity in Assessment Centres
- Hamilton Paramedic Services continues to provide pop up testing sites in priority neighbourhoods to increase access to testing
- Continue to support congregate settings
- New subgroup to support health and community care workers mental health and well-being during and beyond the COVID-19 response

# COVID-19 Vaccine Update

- Continuing with provision of vaccine to Phase 1 priority groups
- Public Health Services run large scale clinic opening at First Ontario Centre March 22 **TODAY!**
- Mobile clinics continue for priority populations and for individuals 75+ across Hamilton

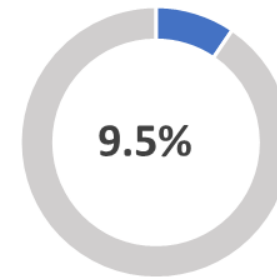


# Vaccine Clinic Update

Estimated as of End-of-Day Mar 18, 2021

	Total doses administered
Hamilton Health Sciences	39,452
St. Joseph's Healthcare Hamilton	8,563
Hamilton Public Health Services	14,653
Primary Care Pilot	1,528
Total in Hamilton	64,196

% of eligible population\* who initiated or completed a vaccine series (at least 1 dose)



## Upcoming Hamilton Public Health Services Mobile Clinics (2021)

- 2<sup>nd</sup> doses at low-risk RH and some “mop-up” at LTCH and high-risk RH (March 14 – 22)
- 2<sup>nd</sup> doses for ALC inpatients (March 16, 25)
- Stoney Creek Recreation Centre – March 25, 26, 27 and 28
- Bernie Morelli Recreation Centre - March 25, 26, 27 and 28
- Norman Pinky Lewis Recreation Centre – March 27 and 28
- Ryerson Recreation Centre - March 25 and 26

Acronyms:

LTCH – Long Term Care Home      ALC – Alternate Level of Care  
 RH – Retirement Home            OCAP – Ownership, Control, Access,  
 HCW – Health Care Worker      and Possession

# Phase 1 Populations

Phase 1	Population	Estimated Size	Est. % Vaccinated End Of Day Mar 22, 2021
Current	LTCH/RH Residents	5,827	100/90
	LTCH/RH Staff	5,710	68/38
	Essential Caregivers	11,654	13
	HCW - highest	17,590	75
	HCW - very high	18,880	64
	ALC (LTCH/RH)	625	25
	Seniors - 85+ Years	11,427	77
	Seniors - 80 to 84 Years	9,805	49
	Shelter residents/staff	1,650	31
	Urban Indigenous Adults	11,000	*
	Adult Chronic Home Care	4,654	5
		<b>TOTAL</b>	<b>98,822</b>
Next	Seniors other congregate settings	500	
	HCW – high	4210	
	HCW - moderate	7,920	
	<b>TOTAL</b>	<b>12,630</b>	

*\*Consistent with the principles of OCAP, the indigenous community decides on the collection and release of data related to indigenous peoples*



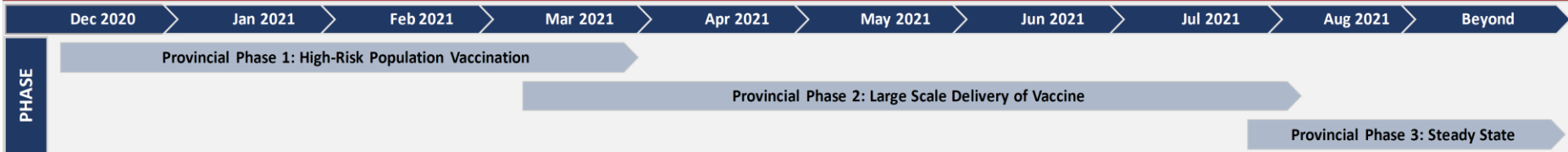
# Phase 2 Populations

Phase 2 Population	Estimated Size
Seniors - 75 to 79	18,813
Seniors - 70 to 74	27,170
Seniors - 65 to 69	32,990
Seniors - 60 to 64*	39,604
Staff/residents of other high-risk congregate (e.g. community living)	
High-risk & At-risk chronic conditions	
Communities at greater risk (e.g. racialized communities)	
Those who cannot work from home	

*\*Primary care pilot for 60-64 began Mar 13*

# HAMILTON COVID-19 VACCINATION PLAN: OVERVIEW

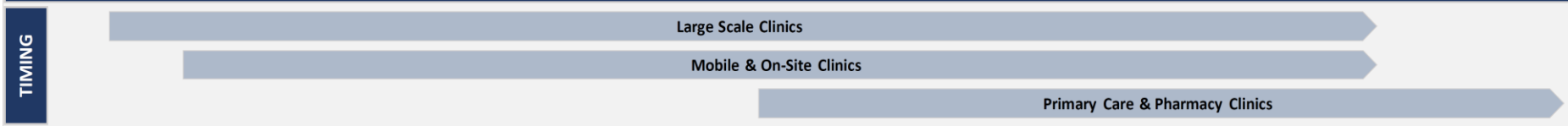
TIMING OF VACCINE ROLLOUT (INCLUDING DATES OF EACH PHASE & CLINIC OPERATION) ARE SUBJECT TO CHANGE & ARE DEPENDENT ON PROVINCIAL DIRECTION AND/OR AVAILABLE SUPPLY OF VACCINE



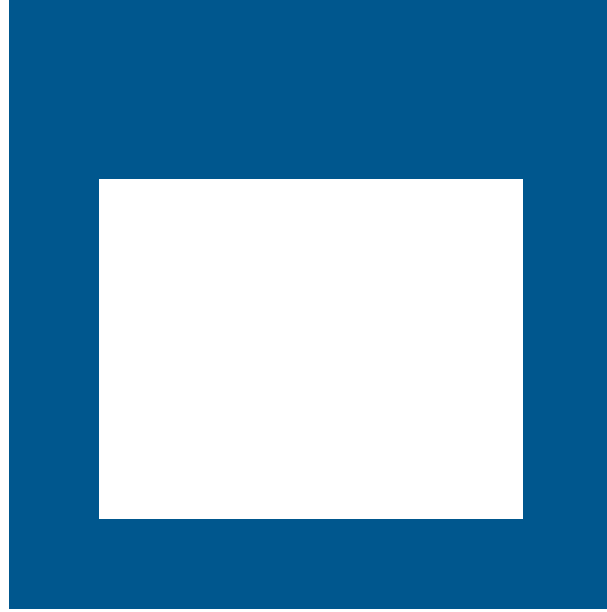
## Provincial Priority Populations by Phase

DESCRIPTION	Phase 1 Immediate Priority ( <i>In Progress</i> )	Phase 2	Phase 3
	<ul style="list-style-type: none"> <li>Staff, essential caregivers, residents in long-term care, high-risk retirement homes</li> <li>Alternate level of care (ALC) patients in hospitals who have a confirmed admission to long-term care, retirement home or other congregate care home for seniors</li> <li>Highest Priority followed by Very High Priority health care workers</li> <li>Indigenous adults in high risk communities</li> </ul> <p><b>Phase 1 Next Priority</b></p> <ul style="list-style-type: none"> <li>Adults 80 years of age and older</li> <li>Staff, residents, caregivers in retirement homes, congregate care settings for seniors</li> <li>High Priority health care workers</li> <li>All Indigenous adults</li> <li>Adult recipients of chronic home care</li> </ul>	<p><b>Phase 2</b></p> <ul style="list-style-type: none"> <li>Continue Phase 1 Priority Populations</li> <li>Older Adults (60 – 79)</li> <li>Staff, residents of high-risk congregate settings (e.g. shelters, community living)</li> <li>Frontline essential workers</li> <li>Individuals with high-risk chronic conditions and their caregivers</li> <li>At-risk populations</li> </ul>	<p><b>Phase 3</b></p> <ul style="list-style-type: none"> <li>Remaining Hamiltonians in the general population who wish to be vaccinated will receive the vaccine</li> </ul>

## Vaccination Approach



DESCRIPTION	Large Scale Clinics	Mobile & On-Site Clinics	Primary Care & Pharmacy Clinics
	<p><b>Large Scale Clinics</b></p> <p>Hamilton Health Sciences Large Scale Clinic St. Joseph's Healthcare Hamilton Large Scale Clinic Additional Public Health Large Scale Clinics</p> <p> Anticipated Throughput: 8,400 doses / day at peak <b>Supports large scale vaccination of the population</b></p>	<p><b>Mobile &amp; On-Site Clinics</b></p> <p>Mobile Bus Clinics Pop-Up Facility Clinics Rolling Clinics Drive Through Clinics</p> <p> Anticipated Throughput: 750 doses / day at peak <b>Provides vaccination through accessible channels</b></p>	<p><b>Primary Care &amp; Pharmacy Clinics</b></p> <p>Primary care practice-based vaccinations Pharmacy-based vaccinations</p> <p> Anticipated Throughput: &gt;1,000 doses / day at peak <b>Provides vaccination through usual channels</b></p>



QUESTIONS?