








Public Health Services COVID-19 Situation Report and Status of Programs

Presentation to the Board of Health
November 16, 2020

Overview

1. Provincial Response Framework
2. COVID-19 Situation Report
 - Case Activity
 - Outbreak Activity
3. Public Health Measures in Control Level
4. COVID Vaccination Update
5. Prioritization of COVID-19 Work

Provincial Response Framework Indicators

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

Provincial Response Framework Indicators

Epidemiology

	Previous (30 Oct)	Previous (6 Nov)	CURRENT (13 Nov)	Trend
Weekly incident rate/100,000	22.5	35.5	52.0	↑
% positivity	1.5	2.0	3.0	↑
Effective reproductive number (R_t)	0.97	1.23	1.25	↑
% of community-acquired cases	29.4%	29.7%	28.1%	↓
Increasing number of outbreaks among LTCH and workplaces since Oct 1, 2020. Total of 19 active outbreaks; 4 outbreaks > 10 cases.				

Public Health System Capacity

	Previous (30 Oct)	Previous (6 Nov)	CURRENT (8 Nov)	Trend
% newly reported cases reached within 1 day of reported date	100%	94%	88%	↓
% newly identified close contacts reached within 1 day of contact ID date	66%	50%	27%	↓

Provincial Response Framework Indicators

Health System Capacity

	Hospital	Previous (27 Oct)	Previous (2 Nov)	CURRENT (9 Nov)
Overall funded hospital occupancy (admissions/funded beds)	SJHH	96%	97%	96%
	HHS	99%	99%	98%
Overall adult critical care capacity (adult ICU admissions/funded ICU beds)	SJHH	78%	70%	70%
	HHS	92%	94%	86%

COVID-19 Situation Report

1. Case Activity

- Phases of activity
- Map
- Age distribution
- Trend of reported cases

2. Outbreak Activity

- Facility breakdown
- Declared outbreaks

1. Case Activity

Phases of COVID-19 in Hamilton

Wave 1

Phase 1: Pre-Peak Mar

- Travel acquisition
- US (+ North America), Europe most common destinations
- First case reported, first outbreak commenced
- First source undetermined (“community-acquired”) case reported 22 Mar
- 111 cases reported to Hamilton Public Health
- 2 deaths
- 14 hospitalized
- 609 tests completed at Hamilton Assessment Centres

Phase 2: Peak Apr – May

- Outbreak and contact acquisition
- 32 outbreaks commenced
- Resulted in spikes in cases 70+ years
- Increase in young cases (20-29) late May
- 568 cases reported to Hamilton Public Health
- 36 deaths
- 121 hospitalized
- 9,060 tests completed at Hamilton Assessment Centres

Phase 3: Post-Peak Jun – Jul

- Community and contact acquisition
- One outbreak commenced
- Provincial re-opening activities
- Household spread an issue, increase in socialization
- 211 cases reported to Hamilton Public Health
- 7 deaths
- 8 hospitalized
- 29,146 tests completed at Hamilton Assessment Centres

Phases of COVID-19 in Hamilton

Wave 2

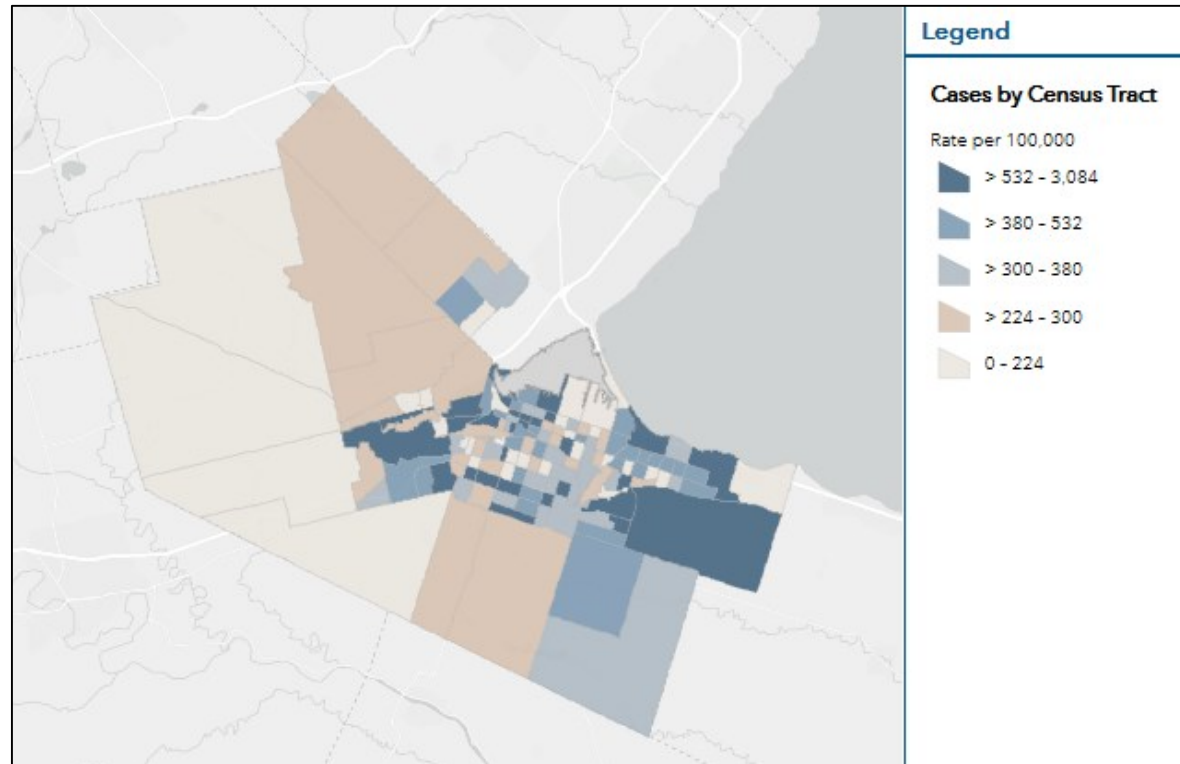
Phase 4: Pre-Peak Aug – Sept

- Community and contact acquisition
- Two outbreaks commenced
- Ongoing household spread, socialization and community exposures contributed to activity
- First cases in local schools
- 274 cases reported to Hamilton Public Health
- 1 death
- 11 hospitalized
- 40,536 tests completed at Hamilton Assessment Centres

Phase 5: Peak Oct – 13 Nov

- Outbreak and contact acquisition
- Cases with no known source continue to occur
- 46 outbreaks commenced - Including some notably large outbreaks, such as SPINCO and Chartwell Willowgrove
- 1,177 cases reported to Hamilton Public Health
- 14 deaths
- 31 hospitalized
- 37,272 tests completed at Hamilton Assessment Centres

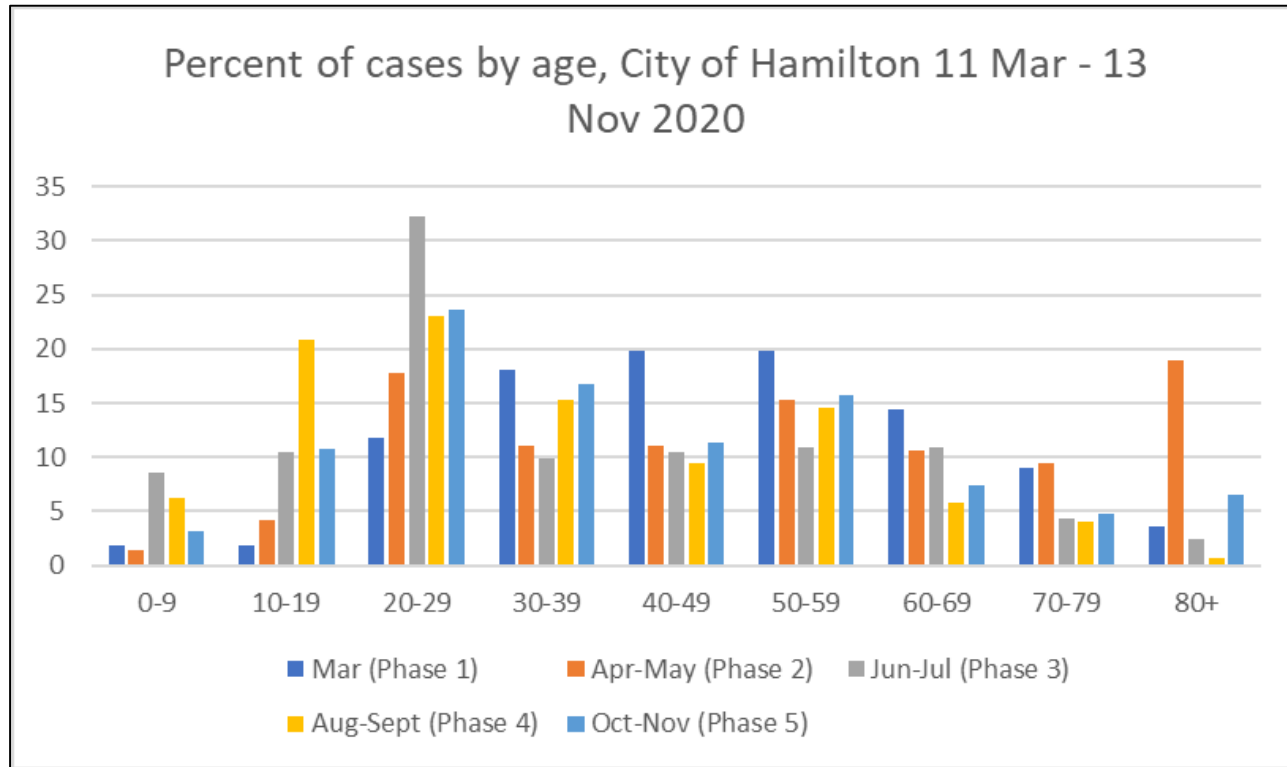
Map – Incidence rate by census tract



Key Messages

- Variation amongst census tracts, rates higher in east end
- Outbreaks in long-term care and retirement homes skew rates

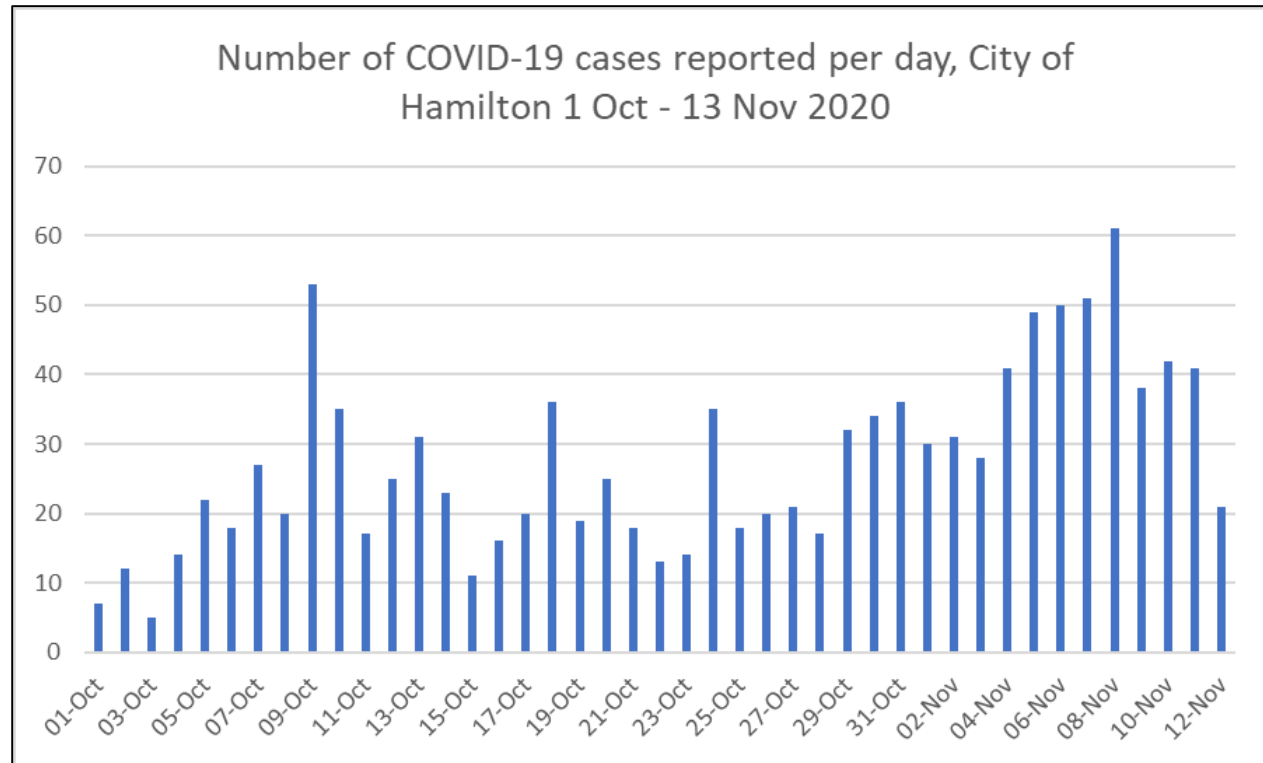
Age distribution



Key Messages

- In Phase 5, the highest percentage of cases occurred in the 20-29 year age group
- There has been a recent rise in the 80+ year age group

Reported cases

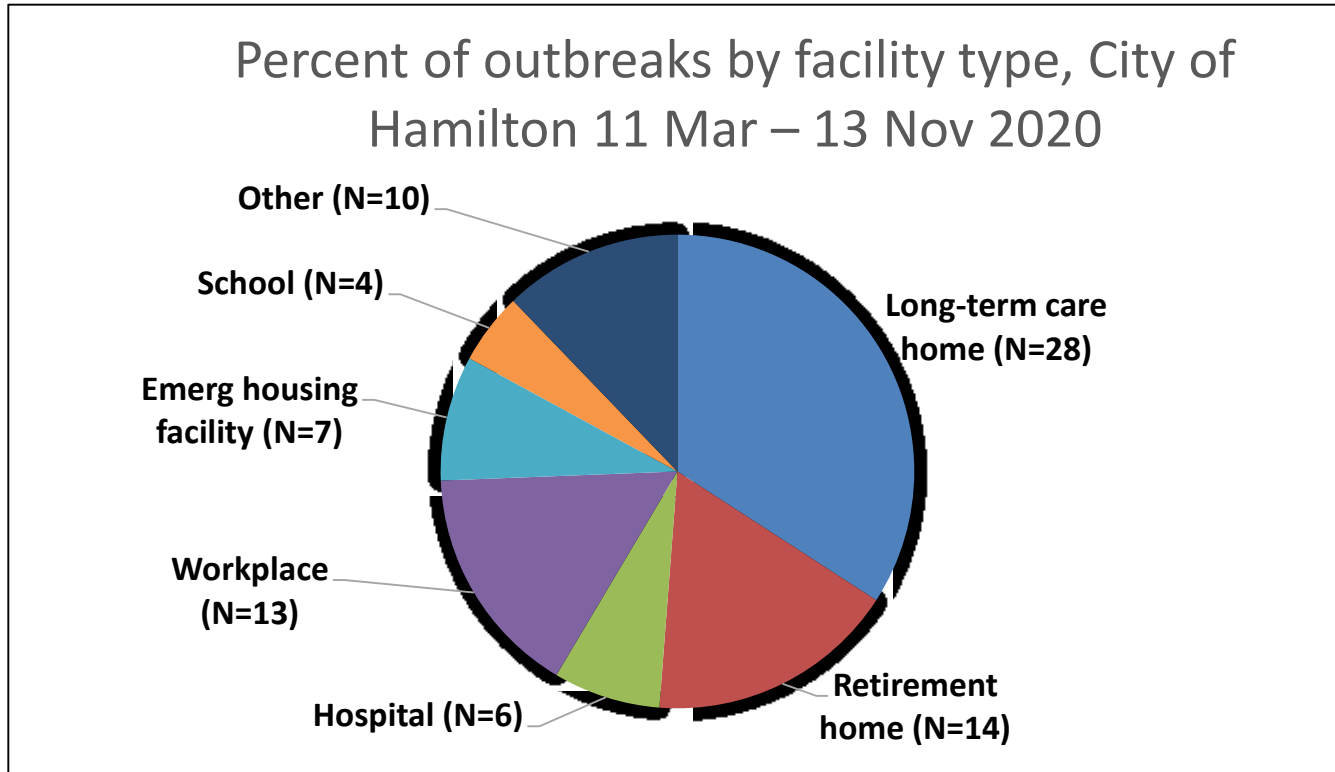


Key Messages

- COVID-19 case activity has increased drastically in the City of Hamilton during Phase 5 (since Oct 1, 2020)
- Since Oct 1, 2020 the average number of cases reported per day has increased from ~10 to 44

2. Outbreak Activity

Outbreaks (Cumulative)



Key Messages

- The largest percentage of outbreaks have been in long-term care homes (N=28, 34%)
- The largest number of outbreak cases have been in long-term care homes (N=201)

Recent Outbreaks (Oct 1 – Nov 13, 2020)

Facility type	Total outbreaks	Total cases	Staff cases	Resident/ patron cases	Deaths
Long-term care home	14	157	65	92	10
Retirement home	6	16	6	10	2
Workplace	13	35	35	0	0
Emergency housing facility	3	4	3	1	0
School	4	12	9	3	0
Other	6	73	9	64	0

Key Messages

- There has been a drastic increase in long-term care home & workplace outbreaks during the Oct 1 – Nov 13, 2020 period
- Long-term care home outbreaks comprise the majority of our recent outbreak cases

Public Health Measures



CONTROL
(Stringent Measures)

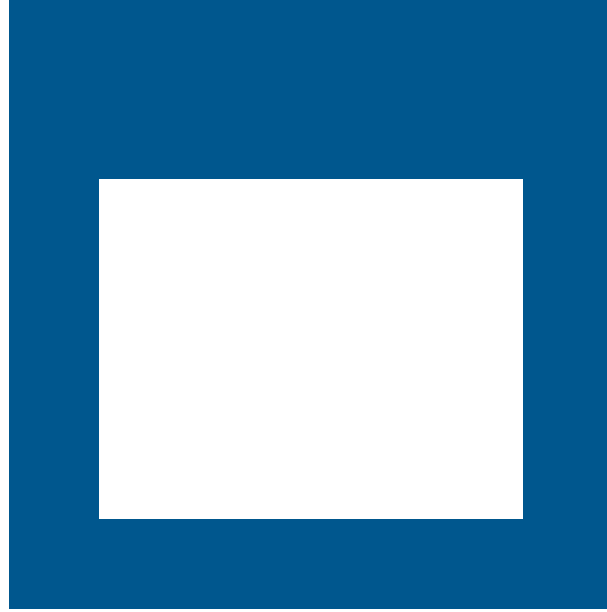
- Comes into effect on November 16, 2020 at 12:00 am
- Broader-scale measures and restrictions, across multiple sectors, to control transmission
- Gathering limit for all organized public events and social gathering: 10 people indoors, 25 people outdoors
- COVID-19 Enforcement team will continue to respond to complaints as well as proactively enforce all of the applicable regulations

COVID-19 Vaccination Plan

- First doses of vaccine available Q1 2021
- Further supply throughout 2021 into 2022
- Expect there to be prioritization of vaccine based on Federal and Provincial guidance.
- Planning underway in Hamilton at local level for vaccine delivery

Prioritization of COVID-19 Work

Essential	High	Medium	Low
Case Management	Contact Management (high-risk settings)	Contact Management (lower risk settings)	Referrals for research trials
Outbreak Management (high-risk settings)	Outbreak Management (lower risk settings)	Monitoring case/contacts	
Guidance for congregate living settings	Congregate setting IPAC audits/check-in	General inquiries via hotline/COVID email	
24/7 On-call response capacity	PH measures compliance investigations	Letters to cases (isolation release)	
CCM/Outbreak phone line	IPAC & School phone line	Reoccurring school visits	
IPAC Audits for outbreak response	Guidance for workplaces and community settings		



QUESTIONS?