

Public Health Services COVID-19 Situation Report & Organizational Update

Board of Health November 15, 2021

> Public Health Services Office of the Medical Officer of Health



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- 2. COVID-19 Situation Report
- 3. Scarsin Forecast
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- 5. Current Public Health Services Priorities



Overall Status

- Case and outbreak activity in Hamilton has been maintaining at current levels for several weeks
- Provincial pause in reopening due to increase in case activity.
- As of November 11, 2021: 871,132 doses given; 85.6% of Hamiltonians 12yrs+ vaccinated with one dose and 82.2% with both doses
- Updated Scarsin forecast indicates that Hamilton can anticipate an increase in cases with increased transmission risk due to increased indoor activities and reopening, however severe outcomes such as hospitalization should be modest
- Control of COVID-19 remains dependent on both vaccination and the practice of public health measures



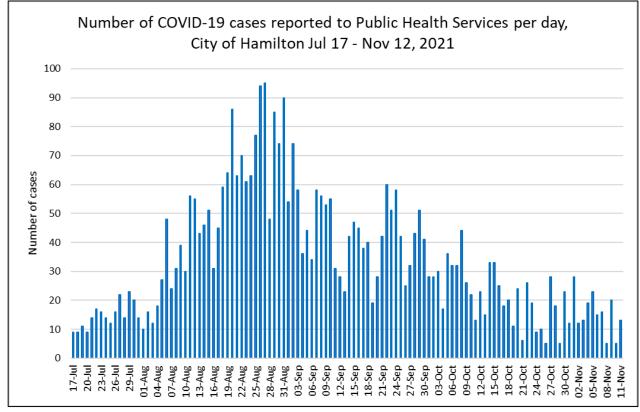
SITUATION REPORT

Stephanie Hughes, Epidemiologist



Public Health Services Office of the Medical Officer of Health

Reported Cases



- Hamilton is in Wave 4 of COVID-19 and maintaining at current activity levels
- As of November 12, 2021 there were 15 cases of COVID-19 reported to Hamilton Public Health per day on average



Phases of COVID-19 in Hamilton – Wave 4

Phase 1: Pre-peak Jul 17 – Aug 16, 2021 (1 month)

- 757 cases reported
- 14 outbreaks
- 47 hospitalizations and 4 deaths
- Outbreaks occurring in workplace, child care, communal living settings
- Stage 3 Provincial Roadmap to Reopen

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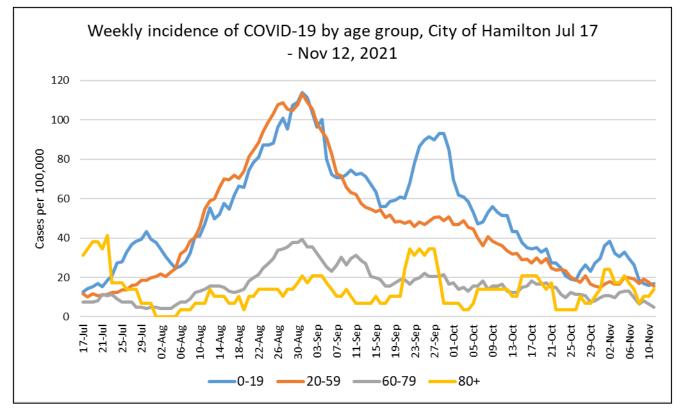
 Vaccine doses administered decreased Phase 2: Peak Aug 17 – Sept 1, 2021 (0.5 month)

- 1,128 cases reported
- 22 outbreaks
- 67 hospitalizations and 3 deaths
- Outbreaks occurring in workplace, child care, athletic settings
- Provincial reopening stages paused, maintenance of public health measures
- Introduction of hyper-local vaccine clinics to areas of Hamilton with lower vaccine coverage

Phase 3: Post-peak Sept 2 – Nov 12, 2021 (2.5 months)

- 2,094 cases reported
- 76 outbreaks
- 124 hospitalizations and 13 deaths
- Outbreaks occurring in workplace, child care, school, athletic, banquet hall, communal living settings
- Increase in indoor activity
- Vaccine passports implemented (ON)
- Increase in provincial cases

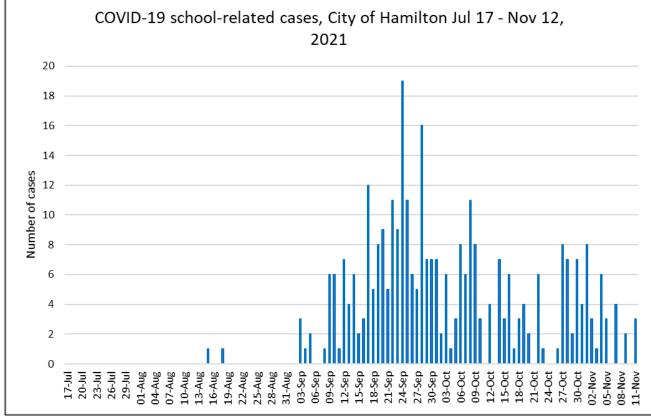
Affected Age Groups



- Wave 4 COVID-19 cases in Hamilton have been predominantly younger/middle-aged individuals (0-59 years)
- There have been recent increases in young individuals (0-19 years), which align with increases in school activity



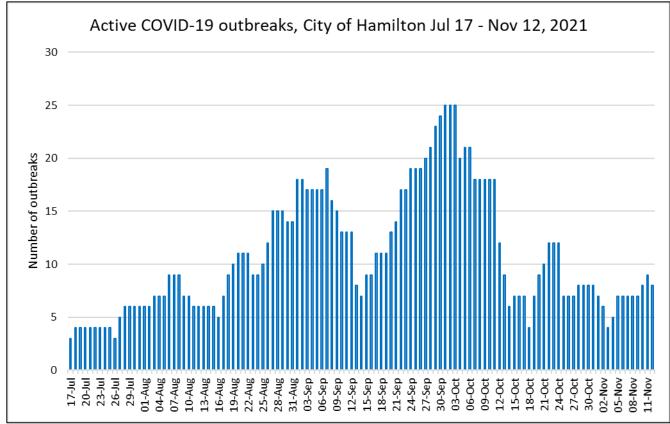
Reported School-Related Cases



- School-related COVID-19 case activity in Hamilton hit a peak near the end of September 2021
- As of November 12, 2021 school-related case activity was decreasing



Active Outbreaks



- COVID-19 outbreak activity in Wave 4 peaked around late September 2021
- The number of active COVID-19 outbreaks in recent weeks has been maintaining



SCARSIN FORECAST

Ruth Sanderson, Epidemiologist



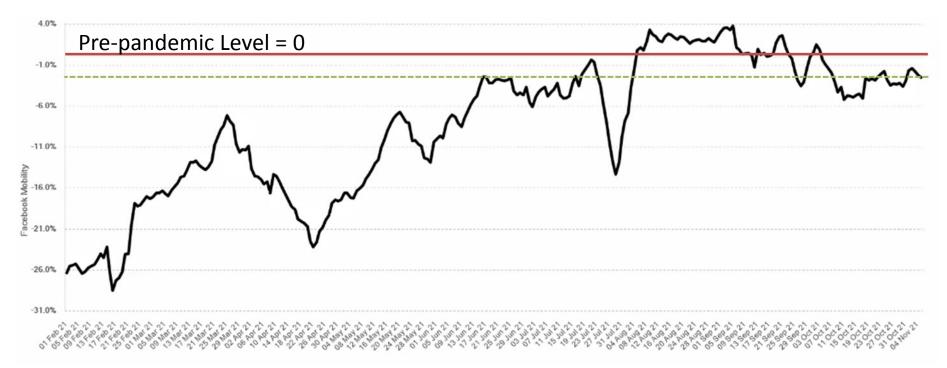
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Scarsin Forecast

- Hamilton continues to navigate the delicate balance with reopening and control of COVID-19
- Sharing publicly for the first time forecasts that are extended out to the end of Jan 2022:
 - The forecasts continue to indicate that the use of public health measures will balance the increased transmission with increased indoor activities and reopening
 - The updated reopening forecast indicates that, while Hamilton can anticipate an increase in cases this year, severe outcomes, such as hospitalization, are forecast to be modest



Overall Mobility, Hamilton



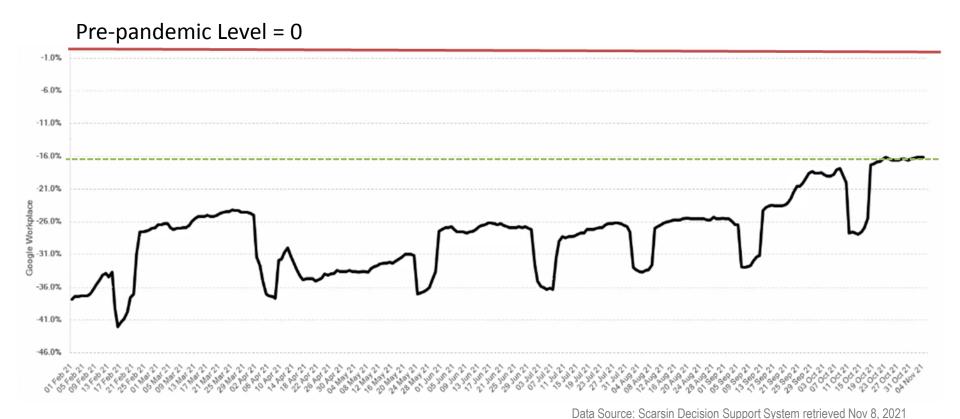
Data Source: Scarsin Decision Support System retrieved Nov 8, 2021

Key Messages:

Hamilton's community mobility levels remain just below pre-pandemic levels; now at -2% as of Nov 4, 2021.



Workplace Mobility, Hamilton



Key Messages:

Workplace mobility has levelled off at 16% below pre-pandemic levels. Levels have not been this high in Hamilton since Mar 2020.



Scarsin Forecast – Overview of Scenarios

Scenario 1 – Maintained Public Health Measures (PHM)

-Maintained public health measures (e.g., 70% masking to Jan 31, 2022)

Scenario 2 – Reopening

Reduced avoidance and physical distancing starting Nov 15, 2021, down to 0% by Feb 15, 2022, in community, workplaces, university & school settings. Masking at 60% to end of year then gradually declines to 0% by end of Mar 2022.

Scenario 3 – Child Vaccination & Reopening

Vaccination of 5–11-year-olds starting Dec 6, 2021; achieves 40% first dose vaccination by end of year, sets 8-week interval between.

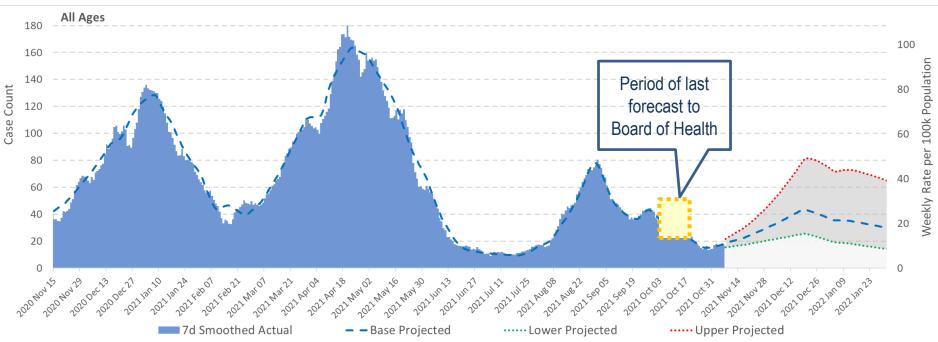
Scenarios Assume:

- -- Increased transmission risk with increased activity
- indoors due to cooler weather and "reopening" activities
- -- 80% vaccination in eligible population by late Oct 2021
- with continued vaccination
- -- Maintained workplace mobility after Oct 2, 2021, so that
- it decreases to 12% below pre-pandemic levels by Jan
- 9,
 - 2022; community mobility at 0% by Dec 31, 2021
 - -- Delta circulating at 99.5% of cases as of Sep 20, 2021
 - -- Immunity curves adjusted for vaccine type
 - -- First dose immunity adjusted for Delta
 - -- Reduced dosing interval to four weeks in Jul 2021
 - -- Fall in-class learning schools/ universities

-Updated Data:

- Case data retrieved Nov 8, 2021
- Updated mobility data
- Vaccination data retrieved Nov 8, 2021

Scarsin Forecast



Scenario 2 Reopening: COVID-19 Cases Among Hamiltonians

Data Source: Scarsin Decision Support System retrieved Nov 10, 2021

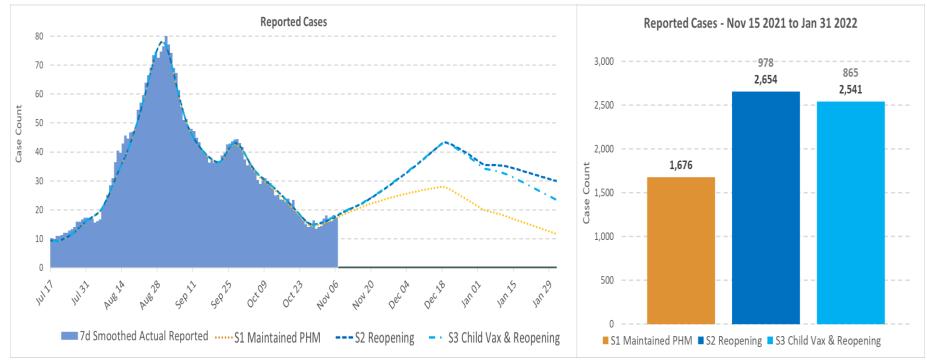
Key Messages:

Compared to this time last year, Hamilton is in a much better position due to continued public health measures and vaccination. A modest increase in cases is predicted in late Nov with "reopening" and added transmission risk from increased indoor activity (including reduced avoidance/ distancing after Nov 15, 2021). Cases may peak at 40 per day.



Scarsin Forecast

Scenario Comparisons, COVID-19 Cases Among Hamiltonians



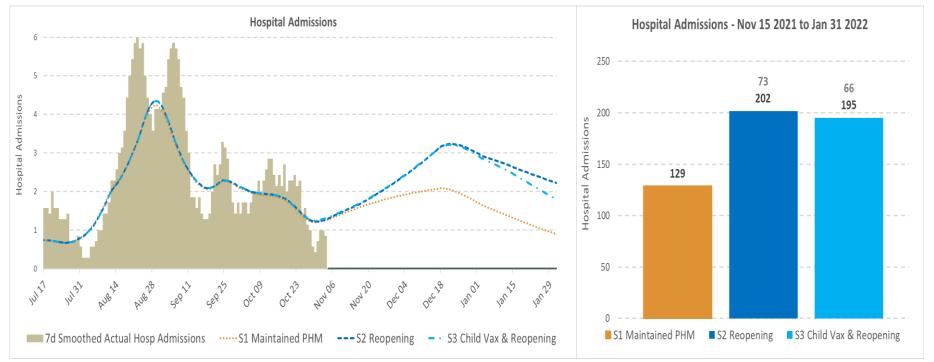
Key Messages:

Data Source: Scarsin Decision Support System retrieved Nov 10, 2021

Scenario 2 Reopening predicts 978 additional cases from Nov 15, 2021 – Jan 31, 2022, compared to Scenario 1 the previous base of maintaining all public health measures (PHM) in place to the end-of-the-year. Cases will primarily be among those aged 0-19yrs (32%) and 20-59yrs (57%). Vaccination of children aged 5-11yrs, starting in Dec 2021, will prevent 113 cases in the new year compared with the reopening scenario (Scenario 2).

Scenario Comparisons, COVID-19 Hospital Admissions Among Hamiltonians

Scarsin Forecast



Key Messages:

Data Source: Scarsin Decision Support System retrieved Nov 10, 2021

Scenario 2-Reopening scenario predicts 73 additional hospital admission from Nov 15, 2021 – Jan 31, 2022, compared to Scenario 1 Maintained Public Health Measures. Admissions will primarily be among those aged 20-59yrs (75%) and 60-79yrs (17%). Vaccination of children 5-11yrs in Dec 2021 (Scenario 3), will prevent 7 additional hospitalizations in Jan 2022 compared with Scenario 2. Anticipate 13 deaths in Scenario 2 between Nov 15, 2021, and Jan 31, 2022; primarily in those over 60yrs (77%).



Scarsin Forecast Summary

- Cases/ hospitalizations and deaths continue to be predicted to be lower out to the end of Jan 2022 than in Wave 3 and will likely remain below the levels previously reached in Wave 4
- A modest increase in cases (primarily in younger age groups) is expected in Nov/ Dec 2021 due to the increased risk of transmission as Hamiltonians move indoors and reopening continues
 - Continued use of public health measures can balance the anticipated increase in transmission
 - Vaccinating children aged 5-11yrs, starting in Dec 2021, is predicted to prevent 113 cases and 7 hospitalizations by the end of Jan 2022



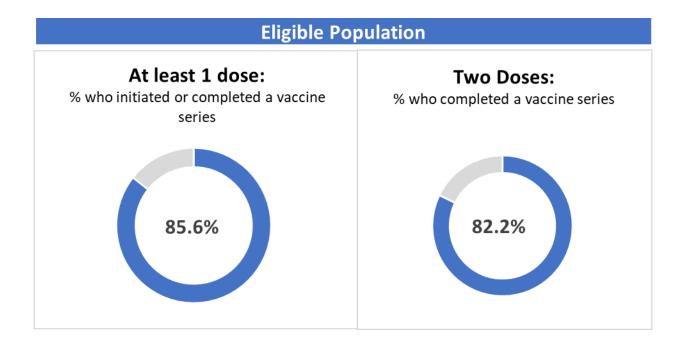
COVID VACCINE UPDATE

Melissa Biksa, Manager – COVID-19 Vaccine



COVID-19 Vaccine – Overall Coverage

Estimated as of End Of Day November 11, 2021



Note: Includes Hamilton residents and individuals vaccinated in Hamilton who cannot be assigned to a health unit region. Eligible population includes individuals born in 2009 or earlier. Sources: IntelliHealth (COVAXon Data Load); IntelliHealth (Population Projections, 2020).



COVID-19 Vaccine – Coverage by First and Second Doses

Estimated as of End Of Day November 11, 2021

	Previous (Oct 29)	Previous (Nov 5)	CURRENT (Nov 12)	Trend
% change in first-dose coverage among Hamilton's eligible population in the past week	85.1% (+0.3%)	85.4% (+0.3%)	85.6% (+0.2%)	*
% change in second-dose coverage among Hamilton's eligible population in the past week	81.0% (+0.7%)	81.6% (+0.6%)	82.2% (+0.6%)	¥
# of first- and second-doses administered to Hamilton residents in the past week	4,926	4,171	3,786	¥
 % of first- and second-doses administered to Hamilton residents in Hamilton 	88.2%	88.8%	89.8%	
 % of first- and second-doses administered to Hamilton residents outside of Hamilton 	11.8%	11.2%	10.2%	
First doses remaining to achieve 90% vaccine coverage: 22,747				
29,209	22,747			
Γ				

37,308

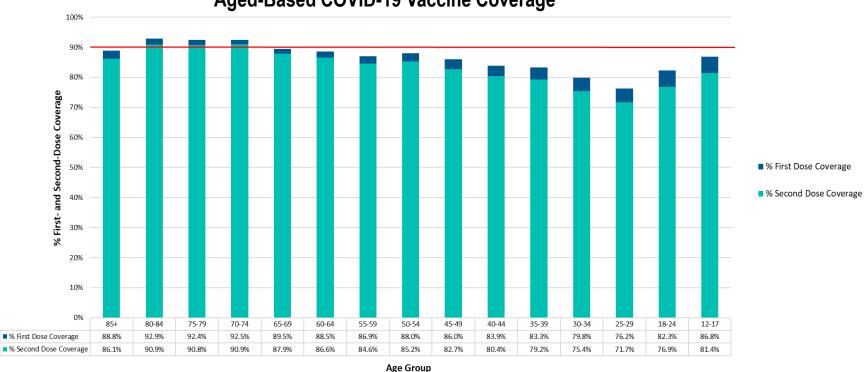
40,626

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



COVID-19 Vaccine – Coverage by Age

Estimated as of End Of Day November 11, 2021



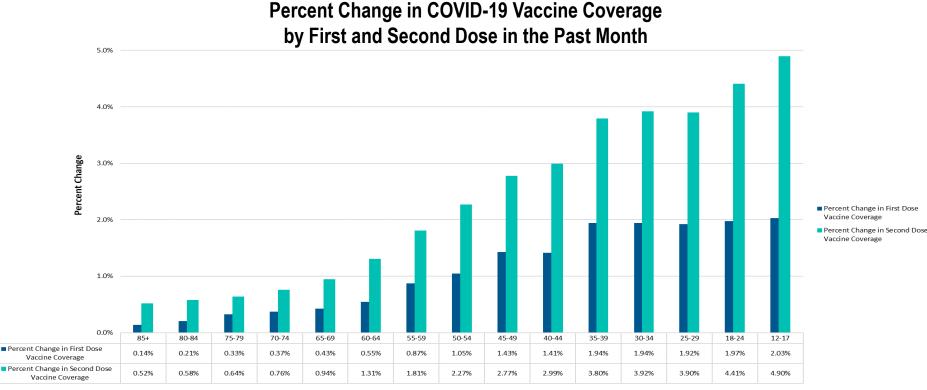
Aged-Based COVID-19 Vaccine Coverage

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



COVID-19 Vaccine – Coverage by Age

Estimated as of End Of Day November 11, 2021

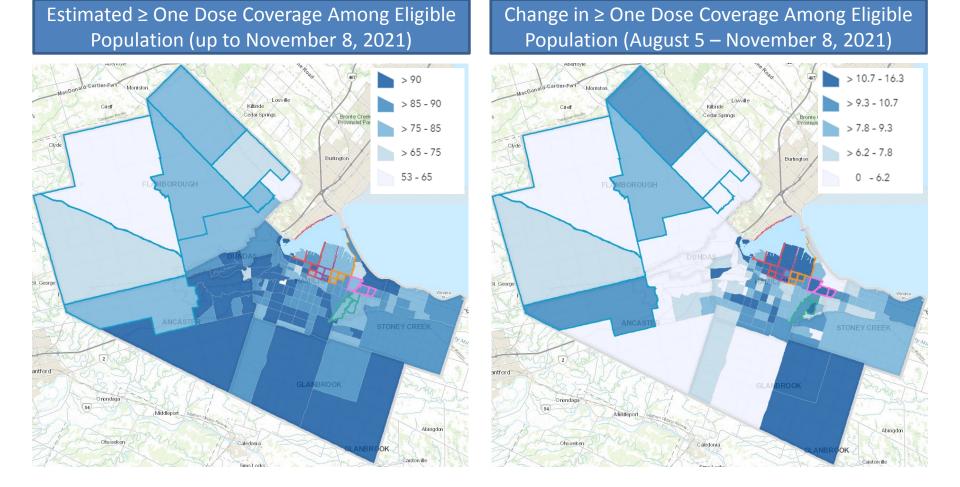


Age Group

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



COVID-19 Vaccine – Coverage by Census Tracts ("neighbourhoods")

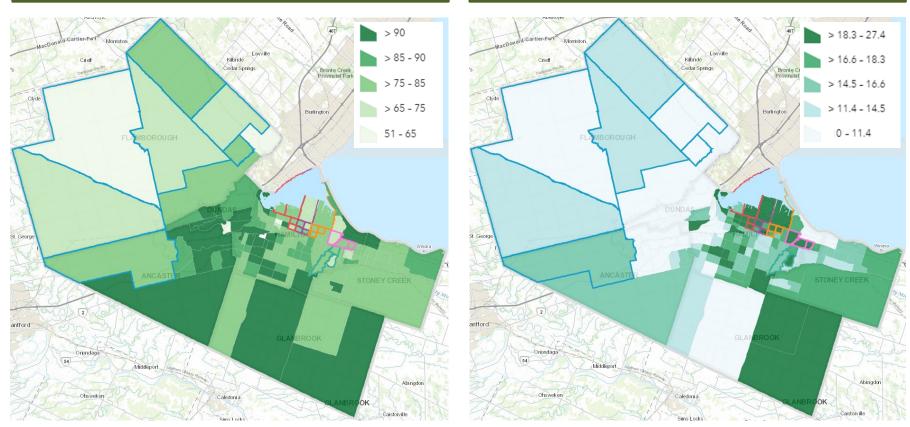


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COVID-19 Vaccine – Coverage by Census Tracts ("neighbourhoods")

Estimated Two Dose Coverage Among Eligible Population (up to November 8, 2021)

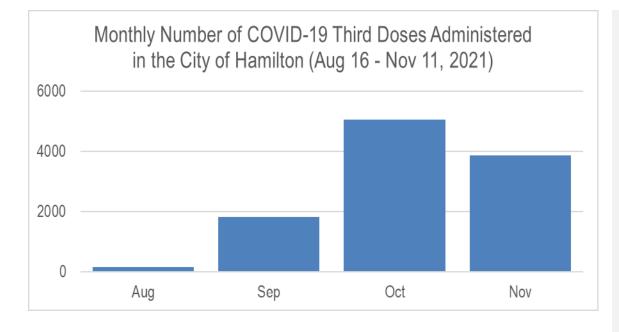
Change in Two Dose Coverage Among Eligible Population (August 5 – November 8, 2021)





COVID-19 Vaccine – Third Doses

Estimated as of End Of Day November 11, 2021



Nearly **11,000** third doses administered in the City of Hamilton

So far, majority administered in October 2021 and in longterm care and retirement homes

Rate of administration increasing in November 2021

Sources: IntelliHealth (COVAXon Data Load)



COVID-19 Vaccine – Rollout Placemat

Present

Last Mile Strategy & Current 3rd Doses

- 1st & 2nd doses to all Hamiltonians
- 3rd doses to all eligible populations

Channels

- Mass clinics, pop-ups, pharmacies, primary care
- Additionally hospitals & occupational health departments, Long-Term Care Homes / Retirement Homes / other on-site clinics

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December 2021 Children 5-11yrs

- 1st & 2nd doses
- Exact timing contingent on approvals, local receipt of vaccine

Channels

 Mass clinics, popup, pharmacy, mobile, community health center clinics, specialized clinics

Jan 2022 Onwards

Future 3rd Doses

- Eligibility broadening to 12yrs+ population
- Based on NACI* recommendation

Channels

- Pharmacies, primary care
- Potential for mass clinics, targeted mobile clinics, Occupational Health

*NACI = National Advisory Committee on Immunization

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COVID-19 Vaccine – Operational Priorities

As we move through new eligibility for 1st, 2nd and 3rd doses, the priority for administration is:

- 1. 1st and 2nd doses (including 5-11 year olds)
- 2. Booster (3rd) doses

Online scheduling will be configured to prioritize appointments for 5-11 year old population and 12 year old+ 1st and 2nd doses will be able to walk-in.



COVID-19 Vaccine - 3rd Doses

Two doses of vaccine offer robust and persistent protection against severe disease from COVID-19

Third doses are **recommended** and **not mandatory**

Currently Eligible

- Moderately-to-Severely Immunocompromised
- Older Adults in Congregate Settings
- Community Dwelling Older Adults 70yrs+
- Health Care Workers, including Essential Caregivers
- Indigenous Adults
- Viral Vector Vaccine Recipients



COVID-19 Vaccine: Mass Clinics Update

- Locations
 - CF Lime Ridge: Opened November 3, 2021
 - The Centre on Barton: New mass clinic will open week of November 15, 2021
 - Hamilton Health Sciences West End Clinic: Health Care Workers Only
- Booking
 - 1st & 2nd Doses 12yrs+ Population: Walk-in & VERTO
 - 1st & 2nd Doses 5-11yrs Population: VERTO Only
 - 3rd Doses: VERTO Only



COVID-19 Vaccine – Mobile Clinics Update

Pop-Up Clinic Schedule (Nov. 15th - 28th)				
Monday	Waterdown Library		Barton Library	
	Central Library	Thursday	Bennetto Rec	
	East End Clinic		Red Hill Library	
Tuesday	Red Hill Library		Ancaster Library/	
	Bernie Morelli/	Friday	Bernie Morelli	
	Pinky Lewis		East End Clinic	
	School Clinic	Saturday	Sackville Hill Rec	
Wednesday	Huntington Park Rec	Saturday	Stoney Creek Rec	
	East End Clinic	Sunday	Mountain Clinic	
	Bennetto Rec	Sunday	Stoney Creek Rec	

5-11yrs specific clinics will be operated once the vaccine is approved



CURRENT PUBLIC HEALTH SERVICES PRIORITIES

Dr. Elizabeth Richardson, Medical Officer of Health



Current Public Health Services Priorities

COVID Response

 Ongoing COVID-19 disease control program and expanding COVID-19 vaccination program

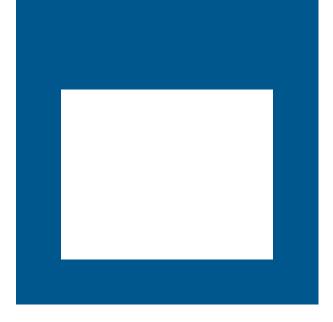
Deficits of Care

- Identify most urgent deficits of care that need to be addressed first
- Use a "Build Back Better" approach when reopening programs to apply lessons learned through COVID-19

Staff Wellness

 Develop and implement strategies to support and retain public health staff, considering the significant impact on mental health and wellness due to the length of emergency response and deployment





QUESTIONS?

Public Health Services Office of the Medical Officer of Health