

Response to COVID-19: Persevering through Resurgence

Presentation to City Council



Dr. Eileen de Villa
Medical Officer of Health
Toronto Public Health

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SUMMARY OF COVID-19 CASES IN TORONTO



All Cases

Case Count*	39,094
Recovered Cases	33,049
City Incidence Rate per 100,000 People	1,431
Fatal Cases	1,555
Ever Hospitalized	2,913
Ever in ICU	581



Currently Hospitalized	168
Currently in ICU	39

As of November 24, 2020



CASES IN THE COMMUNITY	76%
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Recovered Cases	25,495
Median Age At Time of Illness	42
Percent Female	48%
Percent Male	51%
Fatal Cases	341
Median Age of Deaths	74

OB ASSOCIATED CASES**	24%
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Recovered Cases	7,554
Median Age At Time of Illness	59
Percent Female	62%
Percent Male	36%
Fatal Cases	1,214
Median Age of Deaths	88

*Includes confirmed and probable cases

**Outbreak associated cases include persons with COVID-19 within a defined group or setting. These are generally in healthcare (e.g., long-term care homes, hospitals) and residential or congregate settings (e.g., homeless shelters, group homes), but can also be in workplaces and other settings

¹Gender was unknown or other for some cases

Monitoring Dashboard - Indicators

Current Overall Status: **Red**



Virus Spread & Containment

Status: **Red**



Laboratory Testing

Status: **Yellow**



Health System Capacity

Status: **Green**



Public Health System Capacity

Status: **Yellow**

Monitoring Dashboard – Virus Spread

Virus Spread and Containment

Status: RED - Indicators trending away from goals

New COVID-19 cases, 7 day moving average¹

418

Goal: A 14-day decline* **OR** a stable trend with less than an average of 1 case per 100,000 per day (30 cases).

New Hospitalizations, 7 day moving average¹

9.9

Goal: A 14-day decline **OR** a stable trend with less than an average of 2 hospitalizations per million population per day (6 hospitalizations).

Active daily COVID-19 outbreaks in institutions¹

48

Goal: A 14-day decline* **OR** a stable trend **AND** below 10% of healthcare institutions with an active outbreak (18 facilities).

Effective Reproductive Number for COVID-19 Cases²

$R_t = 1.1$
(90% CI 1.0 to 1.1)

Goal: Under 1.0

Monitoring Dashboard – Laboratory Testing

Laboratory Testing

Status: YELLOW - Indicators need attention

Percent of new COVID-19 tests with a
turnaround time of 24hrs¹

37%

within 24 hours
(7 day moving average)

Goal: $\geq 60\%$ within 24 hours

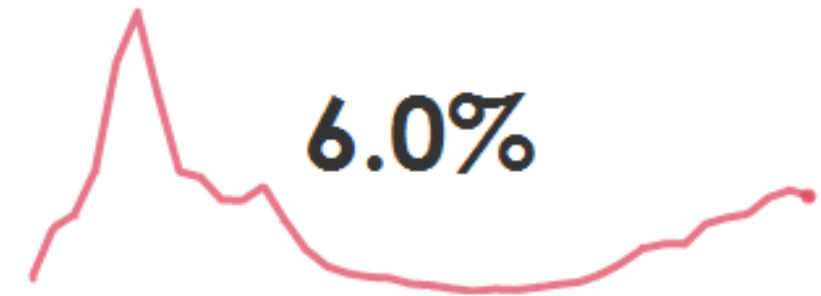
Percent of new COVID-19 tests with a
turnaround time of 48hrs¹

86%

within 48 hours
(7 day moving average)

Goal: $\geq 80\%$ within 48 hours

COVID-19 Laboratory Tests Percent Positivity,
previous week average³



Goal: $< 3\%$ positivity

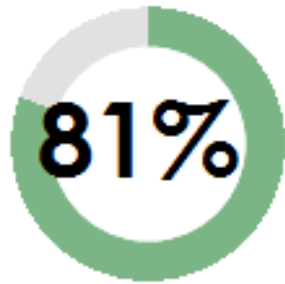
1) Lab turnaround data as November 22, 2020 3) percent positivity as of week ending November 24, 2020

Monitoring Dashboard – Health System Capacity

Health System Capacity

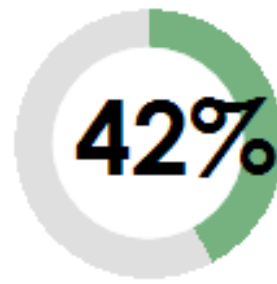
Status: GREEN - Indicators at goal

ICU bed occupancy rate⁴



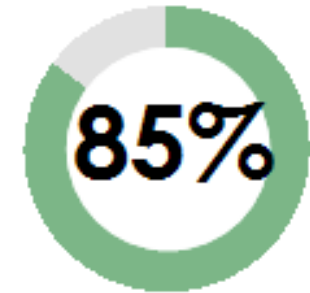
Goal: <90% occupancy

ICU-ventilator bed occupancy rate⁴



Goal: <60% occupancy

Acute bed occupancy rate⁴



Goal: <90% occupancy

Estimated number of days of PPE available, Toronto Hospitals⁵

N95 Masks

340



Surgical Masks

219



PPE Eyewear

95



Gloves

97

Public Health System Capacity

Status: YELLOW - Indicators need attention

Percent of newly reported confirmed COVID-19 cases reached within 24 hours

Percent of newly reported contacts successfully reached within 24 hours



92.4%

November 17 to November 19, 2020

Goal: > 90% contacted



Reporting of this indicator
is temporarily suspended

Goal: >90% successfully reached

Case rate by neighbourhood - Week of November 8, 2020

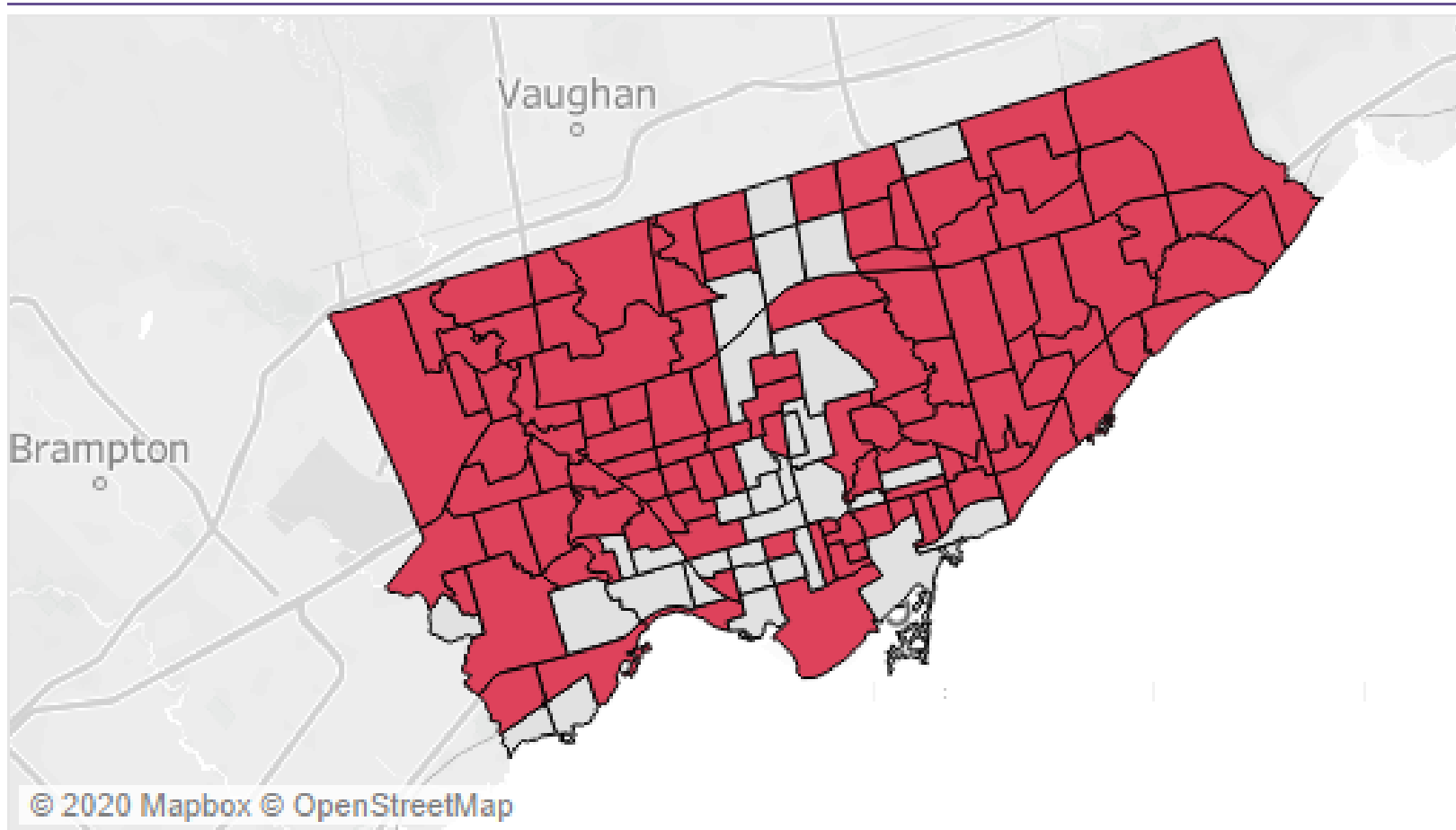


Table for testing week of: November 8, 2020

Percent Positivity by Neighbourhood – Week of November 8, 2020

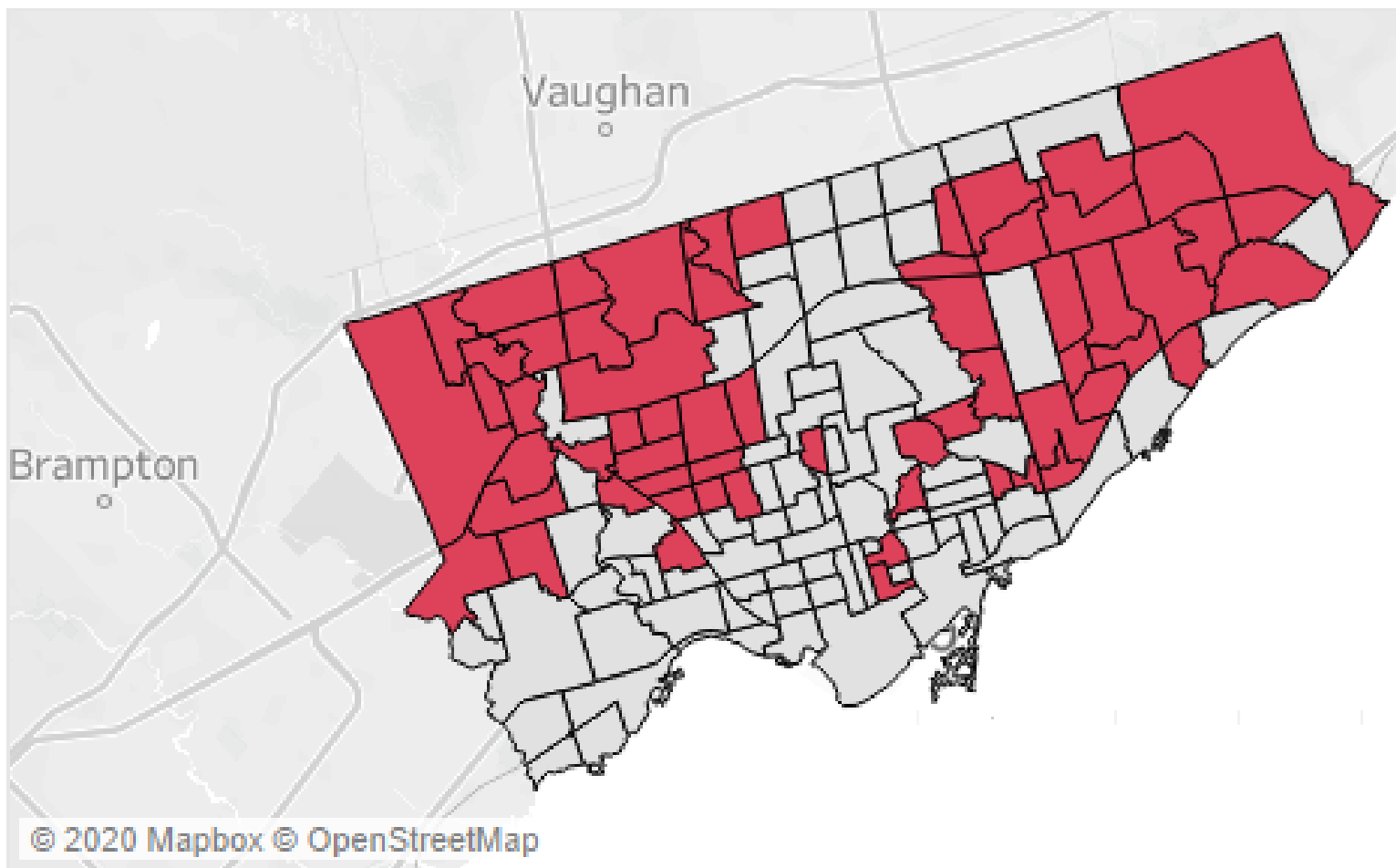


Table for testing week of: **November 8, 2020**

Percent positivity by age group, Toronto

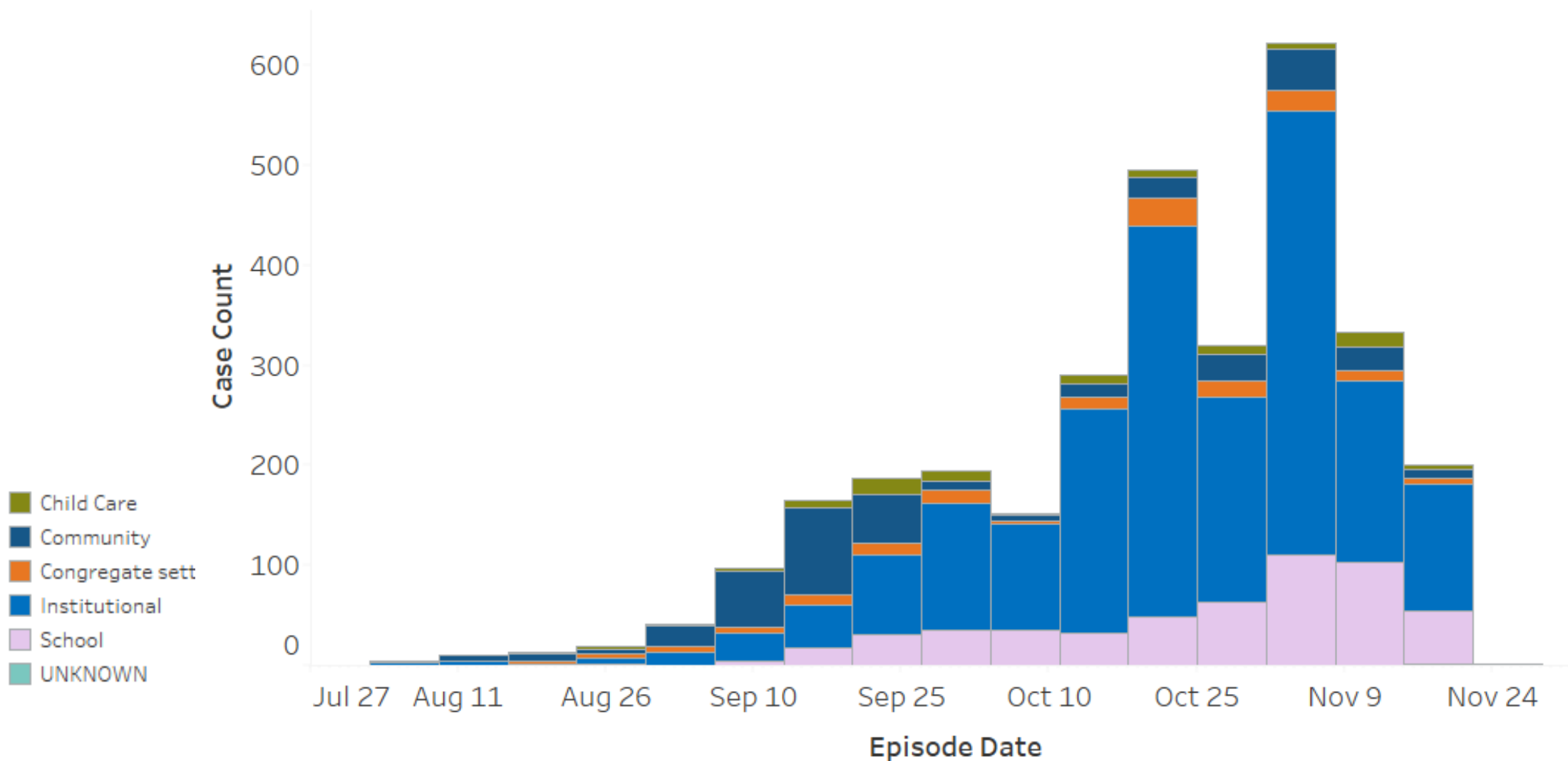
COVID-19 Percent Positivity by Age Group and Testing Week, Toronto

	August Aug 30	September				October				November		
		Sep 6	Sep 13	Sep 20	Sep 27	Oct 4	Oct 11	Oct 18	Oct 25	Nov 1	Nov 8	Nov 15
< 4			0.46%	0.85%	1.25%	1.83%	3.01%	2.85%	3.19%	3.63%	5.56%	4.78%
4-13	1.27%	1.18%	1.42%	1.06%	1.07%	1.64%	2.43%	4.52%	4.73%	6.10%	5.78%	7.18%
14-17	1.96%	2.32%	3.11%	3.60%	4.42%	4.47%	4.83%	7.42%	7.55%	7.31%	10.55%	8.77%
18-23	1.31%	2.34%	3.77%	5.00%	5.97%	4.31%	6.70%	6.90%	6.23%	8.09%	9.52%	8.63%
24-39	0.97%	1.65%	2.43%	3.74%	4.03%	3.53%	4.92%	4.87%	4.94%	5.88%	6.19%	6.12%
40-69	0.69%	1.00%	1.63%	2.65%	3.08%	3.13%	4.34%	4.62%	4.77%	5.48%	6.43%	5.76%
70+	0.27%	0.48%	0.78%	2.17%	2.73%	2.65%	3.44%	3.50%	4.53%	6.23%	4.75%	4.22%

Percent Positivity



Cases linked to outbreaks by setting, outbreak reported date as of August 1, 2020



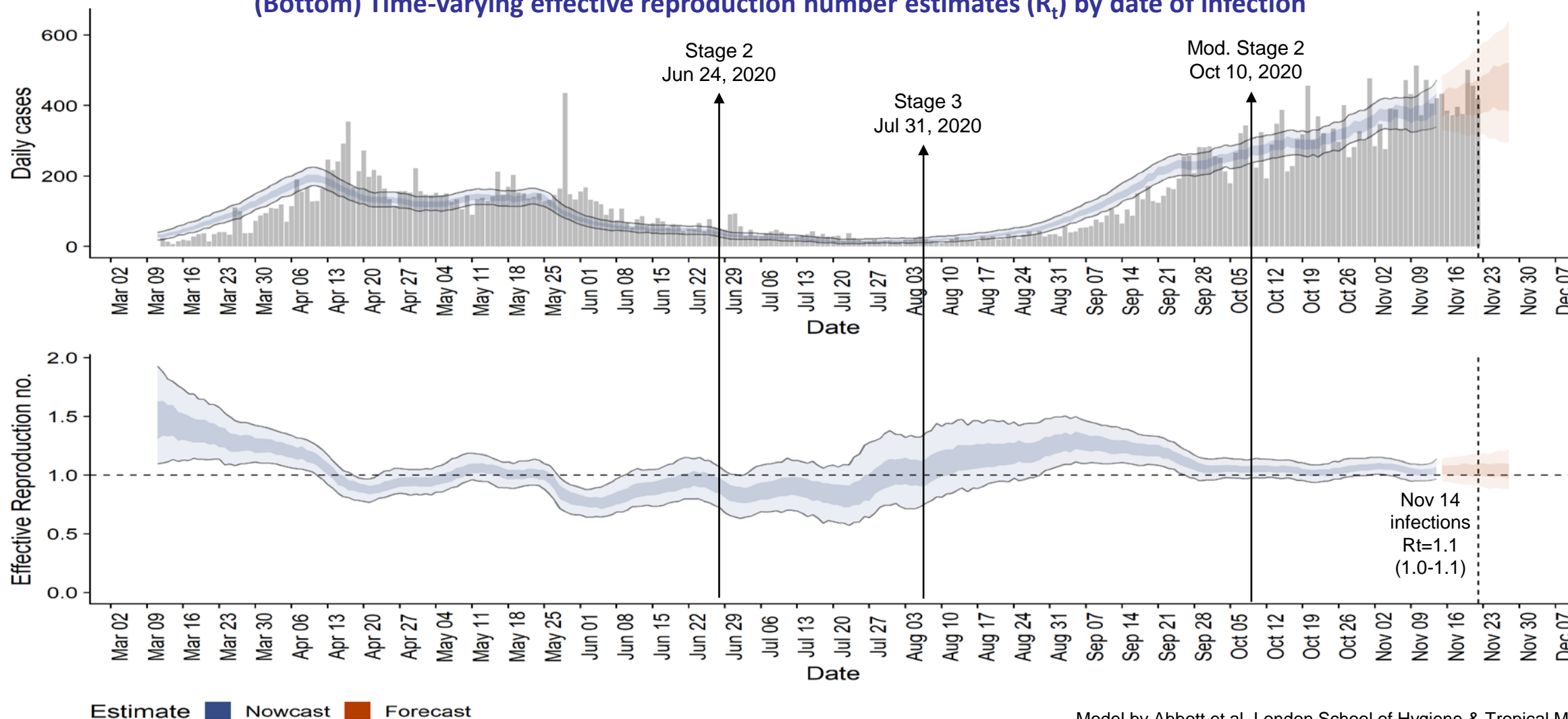
Examples of Preventable Outbreaks

- Socializing outside of workplace
 - E.g. birthday party, promotion party
- Socializing inside workplace
 - E.g. staff eating lunch together
- Workplaces that do not have adequate measures in place
 - Lack of social distancing, mask use
 - Lack of hand sanitizer
 - Working with symptoms

Effective reproductive number (R_t)

(Top) Epidemic curve of confirmed COVID-19 cases by date of report and their estimated date of infection

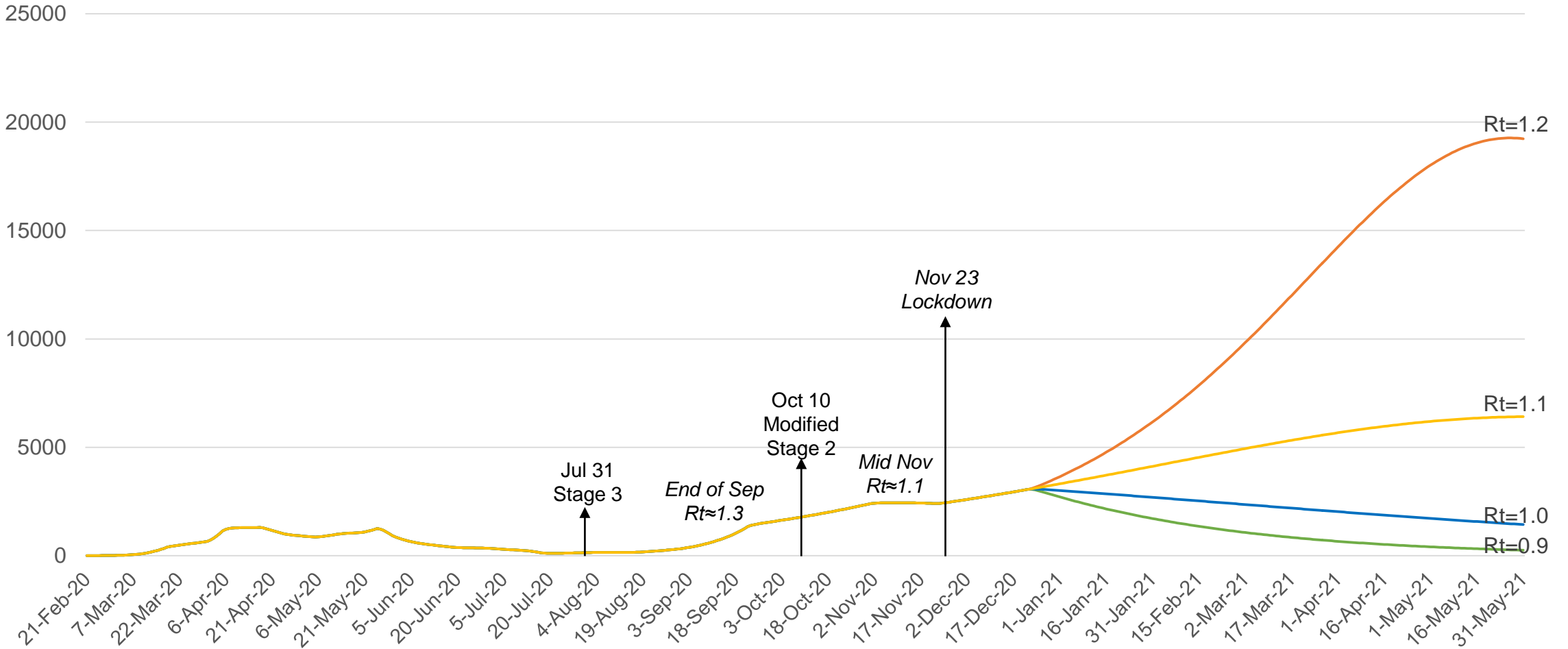
(Bottom) Time-varying effective reproduction number estimates (R_t) by date of infection



Potential scenarios using simulated values of R_t in the near future






Estimated number of infections* based on potential values of R_t , simulated for December 21, 2020

Confirmed/probable case data Feb 21 – Nov 22, 2020,
CIHI COVID Health System Capacity Tool v2.0



*Including symptomatic and asymptomatic infections (note: reported case numbers underestimate the true number of infections)

Ministry of Health COVID-19 Response Framework

 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>Public Health 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>Public Health 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>Public Health 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>Public Health System Capacity</p> <ul style="list-style-type: none"> Public health unit capacity for case and contact management at risk or overwhelmed 	<p>Epidemiology</p> <ul style="list-style-type: none"> Adverse trends after entering Red/Control, such as: <ul style="list-style-type: none"> Increasing weekly case incidence and/or test positivity Increasing case incidence and/or test positivity among people aged 70+ Increasing outbreaks among vulnerable populations such as long-term care residents and residents of other congregate settings <p>Health System Capacity</p> <ul style="list-style-type: none"> Hospital and ICU capacity at risk of being overwhelmed <p>Public Health System Capacity</p> <ul style="list-style-type: none"> Public health unit capacity for case and contact management at risk or overwhelmed

Toronto is in the Grey - Lockdown Category

- Monday November 23, Toronto moved into the provincial Grey-Lockdown category
- This change adds further restrictions in Toronto, including:
 - no indoor organized public events or social gatherings except with members of the same household;
 - outdoor organized public events or social gatherings limited to a maximum of 10 people;
 - closing indoor and outdoor dining at restaurants and bars, closing all indoor gyms, closing hair salons, barber shops, nail salons and tattoo parlours, and closing all retail, including malls, except for curbside pick-up or delivery;
 - essential businesses can be open for in person shopping at 50% capacity; and
 - weddings, funerals and religious services can have up to 10 people indoors or 10 people outdoors;

- Vulnerable Torontonians have been hardest hit by COVID-19
- To support Toronto residents and to stop virus spread the City is taking urgent action together with community partners
- The guiding framework is called TO Supports: COVID-19 Equity Response Plan.

TO Supports Equity Action Areas

HEALTH COMMUNICATION & OUTREACH

- Multilingual Public Health Campaign
- Expanded Local Community Outreach
- Non-Stigmatizing Data Reporting

COMMUNITY HEALTH ACCESS

- Promote Community Testing
- Voluntary Isolation Site
- IPAC Support to Agencies
- Overdoses Prevention
- Flu Shot Clinics

SUPPORT FOR COMMUNITY SECTOR PARTNERS

- Emergency Funding
- Donations Management
- Community Agency Cluster Coordination

SHELTER, HOUSING, & HOMELESSNESS SERVICES

- Expand Services for Physical Distancing and IPAC
- Rapid Housing Access
- Human Rights-based Encampment Response
- 12 month Interim Shelter Recovery Plan

INCOME SUPPORTS

- Connect to Emergency Benefits
- Eviction Prevention Advocacy

FOOD SECURITY

- City-wide Response to Acute Food Insecurity

CARE FOR SENIORS

- Prevent and Manage Outbreaks in Long-Term Care
- Support Seniors in the Community

DIGITAL ACCESS

- Expand Free WiFi for All.
- Free High-Quality Online Activities and Programming

MENTAL HEALTH & FAMILY SAFETY

- Free, Culturally-Appropriate, Multilingual Phone-based Counselling
- Family Violence Awareness Campaign

CHILD & FAMILY SUPPORTS

- Emergency Child Care
- Protect access to Fee Subsidies and Child Care Spaces
- Online EarlyON programming and family supports

Preparing for COVID-19 Vaccine

- The City's Immunization Task Force (ITF) is planning the largest mass immunization in Toronto history
- Leveraging expertise in emergency logistics / response / planning
- Role is to deliver mass COVID-19 immunization clinics once vaccines are provided by the Province

Preparing for COVID-19 Vaccine

- Three vaccine manufacturers have recently reported preliminary results showing between 90% and 95% effectiveness, after the second dose of vaccine.
- First doses of vaccine could be delivered Q1 2021
- Early delivery of vaccine to be administered to specific sub-populations identified by province - likely spring for wider population access.