Protecting Ontarians through Enhanced Testing

May 29, 2020



Why Test?

Ontario's testing plan is designed to achieve three goals. To accomplish these goals, we need to make sure testing is accessible, available, timely and of high quality.



Goal 1: Increase testing to identify anyone with COVID-19 and spread in community



Goal 2: Aggressively track and trace contacts to contain spread



Goal 3: Populations surveillance: provide an ongoing evidence base to inform decision-making



Types of testing for COVID-19

Molecular (PCR)

Do I currently have COVID-19? (current diagnosis)

46

Nose and/or throat swab



Have I had COVID-19? (retrospective exposure)

Serology

Blood (serum) sample

What is being detected in the test?

What question

does it answer?

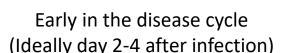
How does a

sample get collected?





The COVID-19 virus





An individual's antibodies

Late in the disease cycle (Ideally day 14+ after infection)

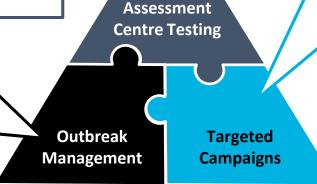
Note: Both molecular (PCR) and serology testing can be performed in a laboratory (high throughput/tests per hour with slower turnaround of sample collection to result) or at point of care (low throughput, faster turnaround). There are no point of care tests for serology with Health Canada approval today.



Three Branches of Testing

- Individuals are tested in a variety of settings, including in assessment centres.
 New approaches are regularly being designed to make testing more accessible.
- Ontario now has the most expansive guidelines in the country, including testing asymptomatic individuals concerned they may have been exposed to the virus.
- Ontario is further reducing barriers to testing by advertising assessment centres online.
- Public health units remain focused on case and contact management in containing and managing an outbreak. Ontario will support these efforts with its agile and rapid response capacity, including mobile testing.

- Plans are already in place in conjunction with employers to support enhanced testing for hospital workers, first responders, retirement homes and longterm care homes.
- The province is also looking to expand testing to additional essential workplaces and is working collaboratively with sector leaders, including auto manufacturers, major retailers and other food suppliers.





System Snapshot

Accomplishments to Date

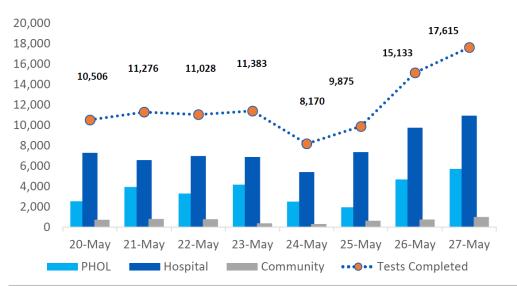
Testing for COVID-19 is one part of an extensive provincial plan to protect Ontarians throughout this outbreak.

- Ontario has completed **over 660,000 tests** to date
- Ontario is **leading large provinces** in daily tests completed
- Capacity to conduct more than 20,000 tests daily
- 131 assessment centres providing access to testing
- Over 20 Labs in the network to manage increased volume
- Evolved testing guidance to support our response to the pandemic



Testing Volumes At A Glance

Daily Volume of Tests Processed (May 28th)



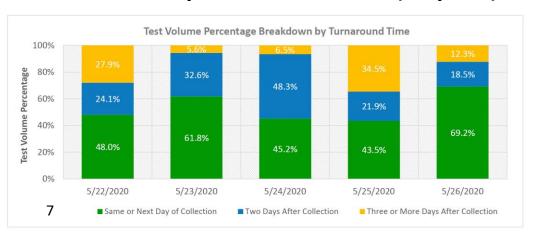
662,162 (+2.67%)Tests Completed as of May 28th

Diversified testing platform



Managing a complex logistical landscape

End to End Daily Turn Around Times (May 28th)



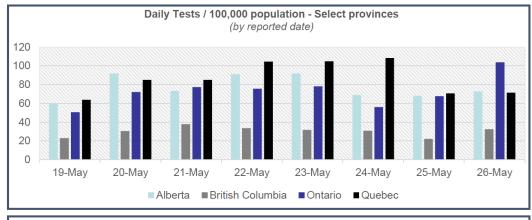
3-Day Rolling Average (May 24th to May 26th)

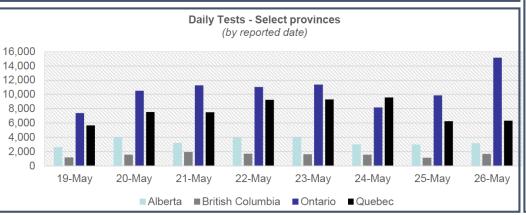
- 54.5% of test results completed by the next day
- 82.0% of test results complete within two days

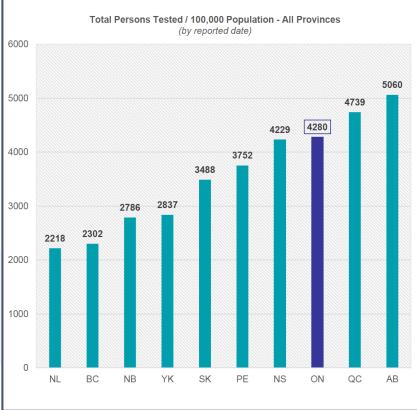


Testing Volumes at a Glance

Ontario ranks third overall for total persons tested per 100,000 population (4,280)









Moving Forward:
Ontario's Strategy to
Expand Testing

Moving Forward: The Plan

Working alongside Ontario Health, Public Health Ontario, assessment centres and public health units, the province is building a comprehensive post-peak plan to enhance surveillance and testing across the province.



Identify, contain and monitor new cases and monitor spread of COVID-19



Expand testing to support public confidence and reopening the economy



Ensure testing is accessible, available and widespread



Learn from each testing phase - Plan, Do, Study, Act



Evolution of the Testing Strategy

- Ontario has taken action on all fronts to respond to the evolving global pandemic.
- As Ontario exits the epidemic peak and gradually reopens the province, we are shifting the focus to enhance our testing approach for Ontarians.
- Effective May 24, testing has been broadened to include:

1. Symptomatic testing:

 All people with at least one symptom of COVID-19, even for mild symptoms.

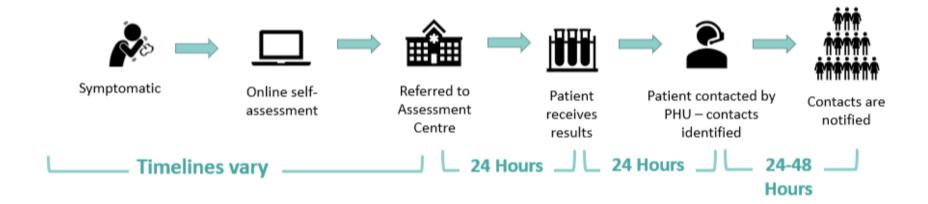
2. Asymptomatic, risk-based testing:

- People who are concerned that they have been exposed to COVID-19.
- People who are at risk of exposure to COVID-19 through their employment, including essential workers (e.g., health care workers and their families, grocery store employees).



Case and Contact Management: Current Status

89.4% of new cases reached within 24 hours



No Ontarian who is symptomatic or who is concerned they have been exposed to COVID-19 will be declined a test at an assessment centre (either through appointment or walk-in, per the processes of each individual assessment centre)



Testing Calendar: Initiated and Being Planned

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
25	26	27	28	29	30	31
Ongoing symp	tomatic and asymptomat	ic testing at assessment	centres			
Long-Term Car	e Homes (monitoring and	testing of all staff)				
Retirement Ho	mes (testing all residents	and staff in homes wit	h outbreaks)			
LCBO (staff dire	ected to local assessment	centres)				
Toronto First F	Responders and Families (police, fire, EMS, paran	nedics)			
Hospital Work	ers at select hospitals acro	oss Ontario				
Select Adult Co	orrectional Facilities					
1	2	3	4	5	6	7
Ongoing sympt	tomatic and asymptomati	ic testing at assessment	centres			
Long-Term Car	e Homes (monitoring and	testing of all staff)				
	Retirement Homes	(planning and initiating	testing of all staff)			
Hospital Work	ers at Select Hospitals					
School Boards	Communications to build	awareness on testing				
Community-Ba	sed Testing (High COVID	Active Communities)				
Select Adult Co	orrectional Facilities					

Landscape of Populations and Settings for Testing

All of the following populations and settings will be considered and incorporated into the testing plan, working closely with the community, businesses and stakeholders.

Long- Term Care Homes	Retirement Homes	Other Congregate Care Settings	Essential Workplaces*	Priority Populations (as per May 14 Provincial Testing Guidance)**	First Nations and Indigenous Communities	Individuals in the Health System	General Population
Residents	Residents	Adult Correctional Facilities	Agri-Food Businesses Supply Chains Food Consumer Products Services Financial Services	Hospital Workers	First Nations	Specific Priority Populations	Individuals
		Emergency Homelessness Shelters		First Responders & Their Families		• Chemo /	Workplaces Sectors include: • Agriculture • Social Services • Education
Staff Staff	Staff	Residential Group Homes for Adults		High COVID Active Communities	Congregate care settings	Cancer Patients Dialysis Pre-/post- transplant Persons	
		Violence Against Women Residential Infrastruc Providers Maintena	 Telecom & IT Infrastructure/Service Providers Maintenance 	High Risk Individuals as Identified via Contact Tracing	FNIM people living in urban areas		
		Sites Intervenor Residential Sites	Transport ServicesManufacturingAgriculture & Food ProductionConstruction	 Hospital Inpatients Health Care Workers/Caregivers/Care Providers/First Responders 	Neonates		Environment and resources Culture and Community Municipal Affairs Economy and Growth
LicenseAnti-HeIndigerShelterYouth	settings include: ed Children's Resi uman Trafficking R nous Healing & Wors Justice Residentia	Residential Sites ellness Facilities / Il Facilities	 Resources & Energy Community Services Sports Research Health Care & Social Services Media Industries Requirements that Apply to Businesses 	Persons Living in Same Household of Health Care Workers/Care Providers/First Responders/Emergency Child Care Centre Workers Remote/Isolated/Rural/ Indigenous Communities Specific Priority Populations Essential Workers Cross-Border Workers			Justice Community Safety Consumer Services and Protection Health Labour and Remuneration Public Works and Infrastructure

** Source: Ontario COVID-19 Provincial Testing Guidance



Residential

Bail Bed Program

Homes for Special Care

Adult Mental Health and Addictions

^{*} Source: Ontario List of Essential Workplaces

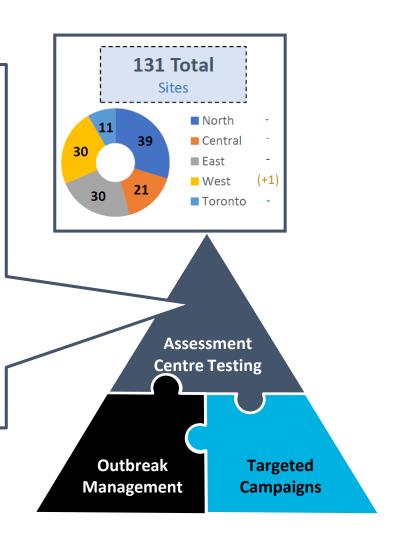
Assessment Centre Testing *Expanding Who Gets Tested*

The primary focus of testing.

Locations: 131 assessment centres across Ontario

New Strategy:

- Individuals are tested in a variety of settings, including in assessment centres.
- New approaches are regularly being designed to make testing more accessible.
- Ontario now has the most expansive guidelines in the country, including asymptomatic individuals concerned they may have been exposed to the virus.
- Ontario is further reducing barriers to testing by advertising assessment centres online.



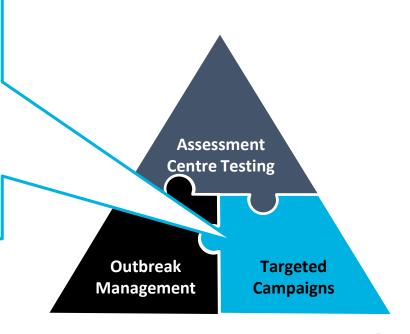


Targeted Campaigns *Detecting and Containing Cases*

Proactive surveillance testing to quickly detect outbreaks and actively monitor for the spread among priority populations.

New Strategy:

- Supporting testing for individuals and communities who may be at higher risk.
- Plans are already in place in conjunction with employers to support enhanced testing for hospital workers, first responders, retirement homes and long-term care homes.
- The province is also looking to expand testing to additional essential workplaces and is working collaboratively with sector leaders, including auto manufacturers, major retailers and other food suppliers.
- Further proactive surveillance testing will also be conducted in rural, remote and Indigenous communities.



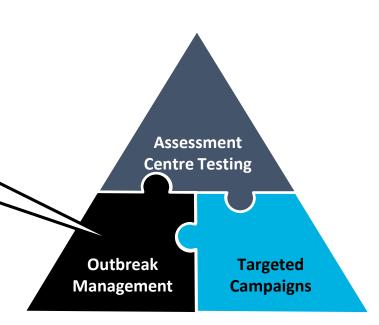


Outbreak Management Focusing Testing to Ensure Rapid Response

Testing conducted in response to the declaration of an <u>outbreak</u> in a specific neighbourhood, region or institutions such as hospitals, long-term care homes and education settings, as well as workplaces.

New Strategy:

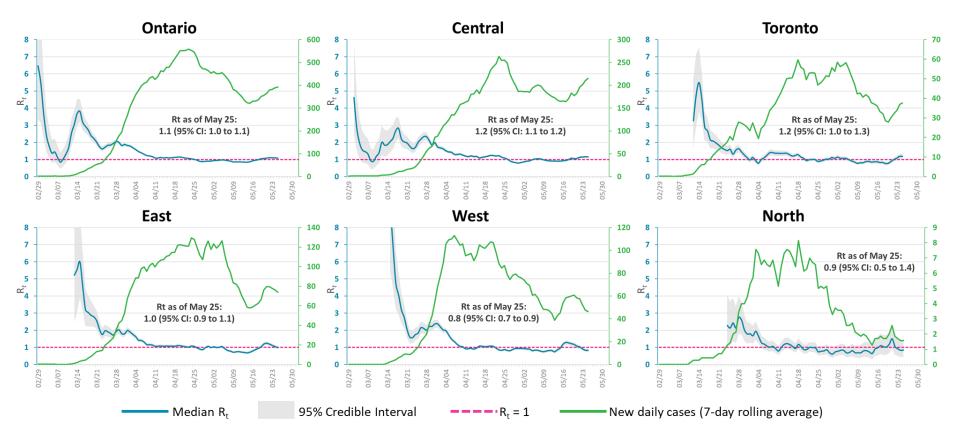
- Public health units remain focused on case and contact management in containing and managing an outbreak.
- Ontario will support these efforts with agile and rapid response capacity, including mobile testing.





COVID-19 Transmission Reproductive (Rt)

The average number of new infections that results from each infection. This measures how quickly the virus is transmitted.



Data source: integrated Public Health Information System (iPHIS), Coronavirus Rapid Entry System (CORES) database, as of May 27 (7pm)

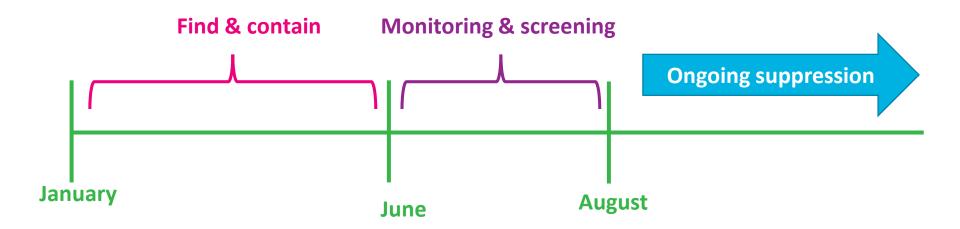
Rt calculated using EpiEstim tool: Cori, Anne, et al. "A new framework and software to estimate time-varying reproduction numbers during epidemics." American journal of epidemiology 178.9 (2013): 1505-1512.



Three Phases to Ontario's Use of Testing

As Ontario exits the epidemic peak and begins Recovery, we are shifting the focus of our daily testing

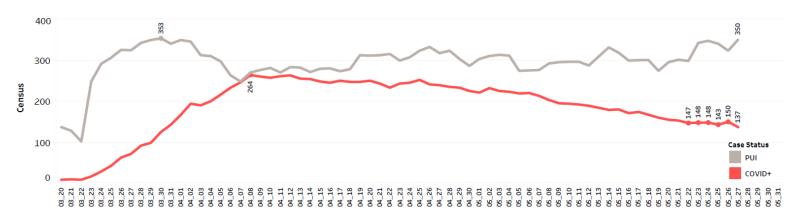
- 1. Find and contain management of pandemic (January to May)
- 2. Monitoring and screening post-peak (June & July)
- 3. Ongoing suppression (August onwards)





Hospital Capacity Report

Daily Trend of Critical Care COVID+ and PUI Census (May 27th)



Critical Care Bed Occupancy Rate for Baseline Capacity and Expanded ICU Capacity (May 27th)

