Last updated August 31, 2020

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This document provides an overview of COVID-19 monitoring indicators relevant to the City of Toronto's response and recovery efforts, and refers to data and information presented in the 'Toronto COVID-19 Monitoring Dashboard'.

The indicators and goals included in the COVID-19 Monitoring Dashboard align with the provincial document <u>A Framework for Reopening our Province</u> as well as with the <u>Ontario Public Health Unit Core Indicators for COVID-19 Monitoring</u>. The primary objectives of this dashboard are to support the active monitoring of local COVID-19 activity, and to support local decisions related to reopening. Please note that the data shown here may differ from other reporting products, as data are extracted at different times. The data in the charts are subject to change, as the public health investigation into reported cases is currently ongoing. Additionally, data definitions are subject to change as the pandemic continues to evolve. Data may be missing if it is not available in the initial report to Toronto Public Health, or could not be obtained through the public health investigation. Records with missing data are not included if all data required to calculate the indicator are not available. Please see the Summary of COVID-19 Monitoring Dashboard Missing Data for further details.

| Indicator | Description | Data Source | Refresh Cycle | | |
|---|--|------------------------------|------------------|--|--|
| Virus Spread and Containment | | | | | |
| New COVID-19 cases, 7 day moving average | The number of new COVID-19 cases by day, using a 7-day advancing window for the average, with a lag of 3 days to account for delays in reporting to public health and allowing for minor fluctuations within acceptable variability. This indicator uses laboratory specimen collection date to assign a 7-day period, and if laboratory specimen collection date is not available, the reported date is used. | iPHIS and CORES ¹ | Mon/ Wed/Fri | | |
| New hospitalizations, 7 day moving average | The number of new hospitalizations among COVID-19 cases, by date of admission, using a 7-day advancing window average to help us see trends and allowing for minor fluctuations within acceptable variability. | iPHIS and CORES ¹ | Mon/ Wed/Fri | | |
| Active daily COVID-19 outbreaks in institutions | The number of ongoing COVID-19 outbreaks in healthcare institutions and congregate settings (i.e. long-term care homes, retirement homes, hospitals, and shelters), allowing for minor fluctuations within acceptable variability, by day. | iPHIS ¹ | Mon/ Wed/Fri | | |
| Laboratory Testing | | | | | |
| Percent of new COVID-19 tests with a turnaround time of 24 hours / 48 hours | The percentage of cases where the lab turnaround time is within 24 hours or within 48 hours. Turnaround time is defined as from the time period between when a person provides a laboratory specimen for COVID-19 testing to when a positive result is reported to Toronto Public Health. A 7-day advancing window average with a one-day lag to account for reporting delays, allowing for minor fluctuations within acceptable variability, is used to help identify trends, Turnaround time for negative laboratory results are not included. | iPHIS and CORES ¹ | Mon/ Wed/Fri | | |
| COVID-19 laboratory tests percent positivity, previous week average | The percentage of all COVID-19 tests processed which have a positive result, by laboratory specimen collection date, using an average for the previous week. Individuals tested more than once are only counted once per day, for each day on which they are tested. Weeks in which there were less than six people tested/positive were suppressed in the data set provided to Toronto Public Health. For these weeks, a value of 3 was imputed. Prior to June 17, 2020, percent positivity was calculated daily. | OLIS (via ICES) ² | Wed | | |

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| Indicator | Description | Data Source | Refresh Cycle | | | |
|---|---|---|------------------|--|--|--|
| Health System Capacity | Health System Capacity | | | | | |
| ICU bed occupancy rate | The percentage of beds in intensive care units in Toronto that are in use. | CRITICALL Ontario via Critical Care Information System (CCIS) and Bed Census Summary tool, accessed via Ministry of Health SAS Visual Analytics Tool. | Wed | | | |
| ICU-ventilator bed occupancy rate | The percentage of beds in intensive care units in Toronto with ventilators that are in use. | | | | | |
| Acute bed occupancy rate | The percentage of beds in acute care hospitals in Toronto that are in use. | | | | | |
| Public Health System Capacit | :y | | | | | |
| Percent of newly reported confirmed COVID-19 cases reached within 24 hours of reported date | The percentage, over a three-day reporting period, of new lab-confirmed COVID-19 cases reached by a case investigator to initiate a public health investigation, within 24 hours of being reported to Toronto Public Health. | iPHIS and CORES ¹ | Mon/ Wed/Fri | | | |
| Percent of newly reported COVID-19 contacts successfully reached within 24 hours | The percentage, over a three-day reporting period, of new COVID-19 contacts (or proxy, e.g., guardian of a minor child, or next of kin) successfully reached by a public health investigator within 24 hours of being identified by Toronto Public Health. Contacts who are outbreak- associated, lost to follow-up (unable to reach client despite numerous attempts), untraceable (phone number is not in service), those classified as low priority (contacts with only transient exposure that do not require extensive public health follow-up), and those missing an investigation start date are excluded from the analysis. Contacts that test positive for COVID-19 are counted as cases, and are excluded from this analysis. Prior to June 17, 2020, this indicator captured the proportion of contacts attempted to be reached. The change to successfully reached aligns with the provincial metric, changed as of June 10, 2020. | CORES ¹ | Wed | | | |

¹iPHIS: Integrated Public Health Information System. CORES: COVID-19 Rapid Entry System.

²Data from the Ontario Laboratory Information System (OLIS) are compiled by the institute for Clinical Evaluative Sciences: Chung H, Fung K, Ishiguro L, Paterson M, et al. Characteristics of COVID-19 diagnostic test recipients, Applied Health Research Questions (AHRQ) # 2021 0950 080 000. Toronto: Institute for Clinical Evaluative Sciences; 202

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Category-level scores are reviewed as the data are updated to provide an overall assessment of the information summarized in Toronto's COVID-19 Monitoring Dashboard. The table below summarizes how indicator specific information is used to generate a category-level score.

| COVID-19 Monitoring Indicator Categories | RED | YELLOW | GREEN |
|---|---|--|--|
| Virus Spread & Containment | Increased case growth | Static case growth | Decreased case growth |
| | • Increased number of new outbreaks | Static number of new outbreaks | Declining number of new outbreaks |
| Laboratory Testing | >15% positivity rate <50% of new tests are completed within 24 hours <70% of new tests are completed within 48 hours | 10-15% positivity rate 50-59% of new tests are completed within 24 hours 70-79% of new tests are completed within 48 hours | <10% positivity rate ≥60 % of new tests are completed within 24 hours ≥80% of new tests are completed within 48 hours |
| Health System Capacity | Limited health system capacity | Improved health system capacity | Health system capacity is sufficient to meet current & future needs |
| Public Health System Capacity | Limited/no ability to follow up cases & contacts in a timely manner | Improved ability to follow up cases & contacts in a timely manner | Case & contact follow up goals are met consistently |
| Overall Assessment | Indicators trending away from respective goals | Indicators need attention | Indicators have reached respective goals |

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Glossary of Terms

| Term | Definitions |
|--|---|
| Active Outbreaks | Ongoing COVID-19 outbreaks that have not been declared over. This includes: long-term care homes, retirement homes, hospitals (acute, chronic, and psychiatric), as well as other congregate settings (shelters, child care centres). |
| Acute care, ICU, and ICU-ventilator beds | Acute care beds are those in hospitals that are intended for short-term intensive inpatient (admitted) medical care. Intensive care units (ICU) beds are those that are used for patients in severe lifethreatening conditions. ICU-ventilator beds are hospital beds that are able to provide care on a ventilator (a machine that helps the patient breathe). Monitoring how many of each type of bed is available is a way to monitor our capacity to care for those who may become ill due to COVID-19 or other causes. |
| Cases | Includes both confirmed and probable COVID-19 cases reported to Toronto Public Health. Please refer to the Ontario Ministry of Health website for Ontario's current provincial case definitions: http://www.health.gov.on.ca/en/pro/programs/publichealth/coronavirus/docs/2019 case definition pdf |
| Community Cases | Community cases refer to all cases that are not known to be outbreak associated, and represent cases among general members of Toronto's population. |
| Contacts | A contact is defined as a person who had a significant exposure to a confirmed or probable case during the case's contagious (infectious) period. This includes household, workplace, institutional, health care, and community exposures. |
| Laboratory Specimen Collection Date | The date on which the earliest positive specimen (e.g. nasopharyngeal swab) for COVID-19 was collected. |
| Moving Average | A moving (or rolling) average is the average of the value on a given date, and the values on the previous 2 days (for 3-day average) or 6 days (for 7-day average). This approach smooths daily spikes in data that may be spurious or related to weekends, and helps us to accurately describe trends. |
| Outbreak Associated Cases | Outbreak associated cases are cases in healthcare institutions (e.g. long-term care homes, hospitals, etc.) and other congregate settings (e.g., homeless shelter). |
| Percent positivity | The percentage of total laboratory tests submitted that have a positive result for COVID-19. Percent positivity can be helpful to estimate the amount of testing being conducted in an area because as the total number of tests performed increases, the percentage of total tests typically decreases if testing guidelines do not change. Increases in percent positivity can also be an early indicator of increased COVID-19 activity in the community and institutions. |
| Reported Date | The date on which the case was reported to Toronto Public Health. When the case is reported by a laboratory, this is the date on which the result was received, and may be later than the test reported date if the test result was reported outside of business hours. |
| Reporting Delay | There are inherent delays between when a case develops symptoms to when they are reported to public health. These delays may include the time from initial symptom onset to seeking a test, time to perform the test, and time from when a positive result is observed to when it is reported to Toronto Public Health. |
| Turnaround time | Turnaround time refers to how long it takes for a specimen (for example a nasopharyngeal swab) to be tested at a laboratory and for positive results to be reported to Toronto Public Health. A longer turnaround time may contribute to delays in case isolation and contact tracing. |