An Update on COVID-19
Presentation for the Board of Health

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

June 8, 2020
Update on COVID-19 Budgetary Impacts
Memorandum from the Ministry of Health regarding Extraordinary Expenses Associated with COVID-19

- $100 million in additional funding for the public health sector
- Re-imbursement of one-time extraordinary costs incurred to manage the response to COVID-19
- Public health units expected to exhaust their base budget before applying for reimbursement
Ministry of Health’s 2020 Cost-Shared Budget for TPH *

- $191.1 million: $143.5 million provincial; $47.6 million municipal
- $35.0 million of the $191.1 million is for ‘standard’ communicable disease control activities
- $5.0 million of the $191.1 million is for the Infectious Diseases Control Initiative, the program is responsible for managing communicable disease like COVID-19

* The 2020 Budget is based on communication from the Ministry of Health in September 2019
COVID-19 Response Forecasted Expenditures

COVID-19 Response Forecasted Expenditures *

• January 1 – May 31
  o $33.7 million:
    o $28.7 million funded by the base budget
    o $5.0 million in extra-ordinary costs
• $5.0 million in extra-ordinary costs:
  o $4.6 million for salary and benefits
  o $0.4 million for supplies

* Forecast is subject to change as TPH’s response changes to address new developments
COVID-19 Response Forecasted Expenditures

COVID-19 Response Forecasted Expenditures *

- January 1 – December 31
  - $120.2 million:
    - $96.8 million funded by base budget
    - $24.4 million extra-ordinary costs
- $24.4 million extra-ordinary costs:
  - $21.6 million for salary and benefits including $8.1 million for additional case and contract staff
  - $2.8 million for supplies

* Forecast is subject to change as TPH's response changes to address new developments
COVID-19 Response Expenditures Impact on Overall Ministry of Health Cost-Shared Budget

- Forecasted funding shortfall of $13.1 million *

* Forecast is subject to change as TPH’s response changes to address new developments
Update on Current Data and Response
Objectives of the Response to COVID-19

1. Prevent Loss of Life
2. Preserve the Capacity of the Healthcare System
3. Minimize the Social and Economic Impacts
SUMMARY OF COVID-19 CASES IN TORONTO

As of June 6, 2020

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case Count*</td>
<td>12,538</td>
</tr>
<tr>
<td>Recovered Cases</td>
<td>9,623</td>
</tr>
<tr>
<td>City Incidence Rate per 100,000 People</td>
<td>459</td>
</tr>
<tr>
<td>Fatal Cases</td>
<td>928</td>
</tr>
<tr>
<td>Ever Hospitalized</td>
<td>1,636</td>
</tr>
<tr>
<td>Ever in ICU</td>
<td>355</td>
</tr>
<tr>
<td>Currently Hospitalized</td>
<td>347</td>
</tr>
<tr>
<td>Currently in ICU</td>
<td>80</td>
</tr>
</tbody>
</table>

*Includes confirmed and probable cases
**Institutions include long term care homes, retirement homes, chronic care & hospitals
*Gender was unknown or other for some cases

CASES IN THE COMMUNITY

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recovered Cases</td>
<td>6,086</td>
</tr>
<tr>
<td>Median Age at Time of Illness</td>
<td>45</td>
</tr>
<tr>
<td>Percent Female</td>
<td>49%</td>
</tr>
<tr>
<td>Percent Male</td>
<td>51%</td>
</tr>
<tr>
<td>Fatal Cases</td>
<td>208</td>
</tr>
<tr>
<td>Median Age of Deaths</td>
<td>72</td>
</tr>
</tbody>
</table>

CASES IN INSTITUTIONS**

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recovered Cases</td>
<td>3,537</td>
</tr>
<tr>
<td>Median Age at Time of Illness</td>
<td>63</td>
</tr>
<tr>
<td>Percent Female</td>
<td>61%</td>
</tr>
<tr>
<td>Percent Male</td>
<td>35%</td>
</tr>
<tr>
<td>Fatal Cases</td>
<td>720</td>
</tr>
<tr>
<td>Median Age of Deaths</td>
<td>89</td>
</tr>
</tbody>
</table>
Infections from COVID-19 continue to circulate in Toronto.

Toronto Public Health is intensively managing and carefully monitoring the local situation.

As of June 6, there are 12,538 cases of COVID-19 diagnosed in Toronto, including:

- 11,421 confirmed cases and 1,117 probable ones
- 347 people in hospital
- 80 people in intensive care
- And tragically, 928 deaths
To date, Toronto Public Health has redeployed approximately 1,026 staff and led additional recruitment to respond to COVID-19 through:

- Investigating Over 12,500 COVID-19 Cases
- Answering Over 40,600 Hotline Calls From Residents
- Investigating Over 3,000 Complaints

As Toronto Public Health continues to respond to the COVID-19 pandemic, we will:

- Engage in ongoing management of COVID-19 cases in the community and outbreaks in congregate settings;
- Provide public health guidance to the City; and,
- Scale up critical public health services as a result of re-opening (e.g., food inspections)
Epidemic Curve – Last 2 Weeks

As of June 6, 2020
Neighbourhood Map – Case Counts in Last Three Weeks

Cases of COVID-19: City of Toronto, May 16, 2020 to June 6, 2020

As of June 6, 2020
Monitoring Dashboard

COVID-19 Monitoring Dashboard

Red - Trending away from goal, Yellow - Trend is stable, Green - Trending towards goal

- Virus Spread & Containment: Status: Red
- Testing: Status: Yellow
- Health System Capacity: Status: Green
- Public Health System Capacity: Status: Yellow

As of June 6, 2020
Virus Spread and Containment
Monitoring Dashboard – Virus Spread Indicators

As of June 6, 2020

- New COVID-19 cases, 7 day moving average: 140
- New Hospitalizations, 7 day moving average: 10.4
- Active daily COVID-19 outbreaks in Institutions: 65

Goal: Sustained decrease over 14 day period.
Incidence Tracking Capacity
Monitoring Dashboard – Testing Indicators

As of June 6, 2020

- **Percent of new COVID-19 tests with a turnaround time of 24hrs:** 23%
  - Goal: >= 60% within 24 hours

- **Percent of new COVID-19 tests with a turnaround time of 48hrs:** 55%
  - Goal: >= 80% within 48 hours

- **COVID-19 Laboratory Tests Percent Positivity, 7 day moving average:** 4.3%
  - Goal: <10% positivity

As of June 6, 2020

As of May 30, 2020
Health System Capacity
Monitoring Dashboard – Health System Indicators

### Health System Capacity

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICU bed occupancy rate(^4)</td>
<td>62%</td>
<td>&lt;70% occupancy</td>
</tr>
<tr>
<td>ICU-ventilator bed occupancy rate(^4)</td>
<td>26%</td>
<td>N/A</td>
</tr>
<tr>
<td>Acute bed occupancy rate(^4)</td>
<td>83%</td>
<td>&lt;85% occupancy</td>
</tr>
</tbody>
</table>

Estimated number of days of PPE available, Toronto Hospitals\(^4\):

- **N95 Masks**: 445
- **Surgical Masks**: 257
- **PPE Eyewear**: 140
- **Gloves**: 48

As of May 31, 2020
Public Health Capacity
Monitoring Dashboard – Public Health Capacity Indicators

Percent of newly reported confirmed COVID-19 cases reached within 24 hours: 72.2%*

Percent of newly reported COVID-19 contacts reached within 24 hours: 100%

* Down from 88.7% (May 26-28/20) largely due to hospital reporting delays

June 1 - 3, 2020

June 1, 2020

Goal: >90% reached

Goal: >90% reached
Provincial and City of Toronto Recovery & Rebuild
On May 14, the Province of Ontario announced *A Framework for Reopening Our Province*, outlining principles to reopen businesses, services, and public spaces based on the following four criteria:

1. **Virus Spread and Containment**
   - Ensures loosening of measures is appropriately timed with the progression of the epidemic in Ontario

2. **Health System Capacity**
   - Ensures there is an effective response to any potential case resurgence

3. **Public Health System Capacity**
   - Ensures there is an effective public health response to any potential case resurgence

4. **Incidence Tracking Capacity**
   - Ensures that any potential resurgence in cases can be identified promptly

The Province will take a phased approach and will follow three stages to loosen emergency measures and re-open the economy, with public health and workplace safety as the top priority.

The Province is currently in Stage 1 of the Provincial Recovery Framework.
Indicators for Monitoring Progress To Rebuild --Monitoring Dashboard

- Medical Officers of Health in Ontario have developed a set of indicators that would inform provincial and local decision-making on recovery issues, building on the categories of the Provincial Framework:
  1. Virus Spread and Containment
  2. Health System Capacity
  3. Public Health System Capacity
  4. Incidence Tracking Capacity

- Toronto Public Health have used these indicators to inform the Monitoring Dashboard.

### Medical Officers of Health in Ontario have developed a set of indicators that would inform provincial and local decision-making on recovery issues, building on the categories of the Provincial Framework:

1. **Virus Spread and Containment**
2. **Health System Capacity**
3. **Public Health System Capacity**
4. **Incidence Tracking Capacity**

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### Monitoring Dashboard

**Ontario Public Health Unit Core Indicator Framework for COVID-19 Monitoring**

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Virus Spread and Containment</th>
<th>Health System Capacity</th>
<th>Public Health System Capacity</th>
<th>Incidence Tracking Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensuring learning of measures &amp; appropriately timed with the progression of the epidemic in Ontario</td>
<td>Ensuring there is an effective response to any potential case</td>
<td>Ensuring there is an effective public health response to any potential case</td>
<td>Ensuring that any potential resurgence in cases can be identified promptly</td>
<td></td>
</tr>
</tbody>
</table>

#### Indicators and Rationale for Provincial Monitoring

- **1 Day moving average of daily new COVID-19 cases**
  - Description: New COVID-19 cases in a 7-day rolling average
  - Rationale: Measures current trend in the number of new daily COVID-19 cases

- **1 Day moving average of daily new COVID-19 cases in the number of recoveries**
  - Description: New COVID-19 cases in a 7-day rolling average
  - Rationale: Measures current trend in the number of new daily COVID-19 cases in recoveries

#### Indicators and Rationale for Local Monitoring

- **Per cent of acute care beds occupied**
  - Description: Percentage of acute care beds occupied in a hospital
  - Rationale: Measures capacity in hospital emergency facilities

- **COVID-19 cases per 100,000 population**
  - Description: Number of COVID-19 cases per 100,000 population
  - Rationale: Measures ongoing ability to induce timely case isolation

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**Data Sources:**
- Ontario COVID-19 Data Dashboard
- Ontario Ministry of Health COVID-19 Disease Outbreaks
- Toronto Public Health
- Public Health Agency of Canada
- National Microbiology Laboratory

Note: Data are provisional and are subject to change.
Through Public Health Measures and good public compliance we have been successful to date in achieving the Responses Objectives:

1. Prevent Loss of Life
   • Avoided the large number of fatalities that were predicted

2. Preserve the Capacity of the Healthcare System
   • Did not overwhelm the healthcare system

3. Minimizing the Social and Economic Impact
   • While we still see community cases in Toronto and we will need to carefully monitor our situation, while we focus on this objective
The City’s recovery and re-build efforts will include the following critical elements:

- Gradual and controlled re-introduction of economic and social activities
- Mitigation of the risks which are inherent in these activities
- Prevention of transmission through:
  - public education;
  - support for businesses and organizations;
  - careful monitoring; and
  - focussed public health management.
• Ontario is in Stage 1 of the phased recovery plan.

• Some businesses and amenities, including retail stores with street-front entrances, golf courses and off-leash dog parks are allowed to open with appropriate public health measures in place.

• The City of Toronto’s Recovery and Rebuild team, led by Saäd Rafi with Dr. David Mowat is providing public health guidance to support City Divisions, programs and services, external businesses and workplaces, and community agencies in defining how they resume operations.
• Guidance is developed using best available evidence about risk and mitigation measures.

• General guidance: separate documents for City Services, Businesses, Voluntary Sector.
  • Links to checklists, modular information of general applicability (e.g. elevators, cleaning protocols), posters

• Certain high-risk or complex issues require specific guidance (e.g. day camps, personal service settings, restaurants).

• For food establishments, Toronto Public Health will be providing advice to support them to reopen safely.
Provincial Recovery Stage 2

• Announcement from the Province is expected about Orders allowing Stage 2 of re-opening.

• Work on public health guidance progresses, but anticipating timing and order of re-opening is challenging.

• Mitigation of risk will be achieved through creating distancing, cleaning and use of non-medical masks.

• Announcement on some form of regional variation of the timing of recovery, based upon local data, is expected.

• As of Friday, June 5, the Province announced an extension of the Emergency Order until June 19.
Recommendations
Recommendation One: Create an Efficient COVID-19 Response System

- Effective case and contact management is currently challenged by several issues related to the transfer of information from laboratories to Toronto Public Health, creating delays.

Process to Reach Cases

The Medical Officer of Health recommends that the Board of Health and City Council:

1. Request the Ministry of Health to create an efficient system of transferring information from laboratories to public health units, including any necessary policy changes to information systems and changes to the *Laboratories Act*, or orders under the *Emergency Management and Civil Protection Act*.
• The Province leads all COVID-19 testing and provides testing guidance in Ontario.

• Testing for COVID-19 is vitally important, but concentrating only upon the number of tests performed is not an optimal strategy. Testing must be seen as a means to reduce the transmission of COVID-19 through case and contact management.

• As of May 29, the Province released the next phase of its COVID-19 testing plan, which includes:

  1. Assessment Centre Testing
  2. Targeted Campaigns
  3. Outbreak Management
Recommendation Two: Provincial COVID-19 Testing Strategy

- There is a need for a clear and consistent approach to COVID-19 testing outlined in a Provincial COVID-19 Testing Strategy, developed with broad input from public health and infectious disease specialists.

The Medical Officer of Health recommends that the Board of Health and City Council:

2. Request the Ministry of Health to urgently develop a Provincial COVID-19 Testing Strategy based upon clear objectives and the best available scientific evidence.
Medical Officers of Health in Ontario have developed a set of indicators that would inform provincial and local decision-making on recovery issues.

The Medical Officer of Health recommends that the Board of Health and City Council:

3. Request the Ministry of Health to adopt recovery indicators developed by Medical Officers of Health in Ontario to inform provincial and local recovery decision-making.
Recommendation Four: Additional Resources for Toronto Public Health

- A large number of Toronto Public Health staff have been redeployed and recruited to support the COVID-19 response; in particular for case and contact management.

- At the same time, plans are underway to support the resumption of some of Toronto Public Health’s services, such as inspection of food establishments.

The Medical Officer of Health recommends that City Council:

4. Request that the City Manager work with the Medical Officer of Health to develop enhanced approaches to providing coordinated support to Toronto Public Health based on the experience to date (e.g., human resources, legal services, information technology, procurement and other support functions), for use in response to future COVID-19 activity and other health emergencies.