COVID-19 GLOBAL PANDEMIC
IMPORTANT UPDATES

DR. CHRIS CHRISTODOULOU
HEAD, DEPARTMENT OF ANESTHESIOLOGY, PERIOPERATIVE AND PAIN MEDICINE
PROVINCIAL ANESTHESIA SPECIALTY LEAD, SHARED HEALTH

DR. DUANE FUNK
CONSULTANT ANESTHESIOLOGIST/INTENSIVIST
ASSOCIATE PROFESSOR, DEPARTMENT OF ANESTHESIOLOGY, PERIOPERATIVE AND PAIN MEDICINE & DEPARTMENT OF INTERNAL MEDICINE (SECTION OF CRITICAL CARE)
Outline:

• Review the current status of COVID-19 in Canada and globally.
• Describe Anesthesia and MB health system planning efforts.
• Review the clinical features and diagnostic testing of COVID-19.
• Outline Personal Protective Equipment (PPE) requirements for Anesthesiologists in airway/intubation scenarios and ward settings.

Questions: Text (204) 291-8377
“I never stopped getting ready. Just in case.”

- Chris Hadfield

Image Credit: NASA
Strength does not come from winning. Your struggles develop your strengths. When you go through hardships and decide not to surrender, that is strength.

~ Mahatma Gandhi
<table>
<thead>
<tr>
<th>Country/Region/ Sovereign</th>
<th>Total Confirmed</th>
<th>Total Deaths</th>
<th>Total Recovered</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>81,074</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Italy</td>
<td>31,506</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iran</td>
<td>16,169</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spain</td>
<td>11,826</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Questions: Text (204) 291-8377
Total Confirmed COVID-19 Cases

Because of limited testing the number of total cases is not known, as explained at OurWorldInData.org/Coronavirus. The number of confirmed cases is lower than the number of total cases.

Note: The large increase in the number of cases globally and in China on Feb 17 is the result of a change in reporting methodology.

Questions: Text (204) 291-8377
Canada: **COVID-19 Cases**

## Current situation

Areas in Canada with cases of COVID-19 as of March 17, 2020, 10:30 am EST

<table>
<thead>
<tr>
<th>Province, territory or other</th>
<th>Number of confirmed cases</th>
<th>Number of probable cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>British Columbia</td>
<td>103</td>
<td>0</td>
</tr>
<tr>
<td>Alberta</td>
<td>74</td>
<td>0</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Manitoba</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>Ontario</td>
<td>17</td>
<td>0</td>
</tr>
<tr>
<td>Quebec</td>
<td>50</td>
<td>0</td>
</tr>
<tr>
<td>Newfoundland and Labrador</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Repatriated travellers</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total cases</strong></td>
<td><strong>424</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**Total: Canadian Cases: 424**

Questions: Text (204) 291-8377
Canada: COVID-19 Positive Cases (18/3/2020 - 00:00)

Total Cases: 598

Includes 9 repatriated Canadians not on map.
“Flattening the curve”:

- Delay outbreak peak
- Reduce the burden on health-care systems

Number of infections

Time since first case identified
COVID-19 Planning Efforts: Anesthesia and Surgery

- **Valued Partners:**
  - WRHA Surgery Program
  - 5 RHA in MB
  - UOM
  - Shared Health
  - Government of MB

- **Shared Health and RHA Incident Command Structures**

- **Anesthesia/Surgery Incident Command**
  - Provincial approach to planning for COVID-19

Questions: Text (204) 291-8377
Specific Planning:

• Human Resources:
  • Awareness of COVID-19 clinical syndrome/testing
  • N95 priority testing - Occupational Health and Safety
  • Education resources – Hand Hygiene / PPE (critical) for Aerosol Generating Medical Procedures (AGMP)
  • Individuals returning to Canada / travel plans
  • Alignment of human resources to evolving slate map that will be subject to ongoing changes

• Please Donate Blood: 188-2-DONATE

Questions: Text (204) 291-8377
Infrastructure/Equipment/Drugs

- COVID-19 PPE carts in all OR’s
- Video laryngoscopes – survey of inventories at all WRHA sites / disposable blades
- Preparation of Anesthesia machines/circuits/inline suction
- Muscle relaxant inventories / supply chain
- Multidisciplinary approach to airway management in COVID-19 patients in evolution
- MB Anesthesia checklist for all sites coming soon

Questions: Text (204) 291-8377
Education / Events:

- **Learners:**
  - R-5 Residents
  - PGME (Transition to online learning)
  - UGME
- **Research update**
- **Department Events:**
  - Annual Gala has been cancelled
  - Changes to Grand Rounds – live web streaming / archiving
- **Office Administration**
Communication:

- **MyMBT Messaging**
  - Mandatory – pandemic planning

- **COVID-19 Portal (resources)**
  - [https://umanitoba.ca/faculties/health_sciences/medicine/units/anesthesia/fac_staff/13096.html](https://umanitoba.ca/faculties/health_sciences/medicine/units/anesthesia/fac_staff/13096.html)

- **Shared Health COVID-19 website:**
  [https://sharedhealthmb.ca/covid19/](https://sharedhealthmb.ca/covid19/)

Questions: Text (204) 291-8377
I learned that **courage** was not the absence of fear, but the **triumph** over it. The **brave** man is not he who does not feel afraid, but he who **conquers that fear**.

– Nelson Mandela
We are about to embrace the unknown............our individual and collective team efforts in the service of patients and families will be a defining moment in our history. I believe in you, your courage and humanity. As proud Manitobans and Canadians we stand united together as a health workforce to take on a generational challenge in COVID-19.

Dr. Chris Christodoulou