2019 Novel Coronavirus (COVID-19) Briefing

Loudoun County School Board Meeting
March 10, 2020
Coronaviruses that Infect People

- 4 cause common cold symptoms
- 2 (SARS and MERS) cause severe lung infection
- Spread through coughing, sneezing or close personal contact
- Symptoms start 2-14 days after exposure

• 2019 Novel Coronavirus – still learning about it
## COVID-19 Compared to Past CoV Epidemics

<table>
<thead>
<tr>
<th>CoV</th>
<th>Origin</th>
<th>Cases</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>COVID-19 (As of 3/10/20*)</td>
<td>Dec 2019 (China)</td>
<td>117,730</td>
<td>4,259</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CFR = 3.5%</td>
</tr>
<tr>
<td>MERS-CoV</td>
<td>2012 (Saudi Arabia)</td>
<td>2,494</td>
<td>858</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CFR = 34%</td>
</tr>
<tr>
<td>SARS-CoV</td>
<td>2002 (China)</td>
<td>8,098</td>
<td>774</td>
</tr>
<tr>
<td></td>
<td>(None since 2004)</td>
<td></td>
<td>CFR = 10%</td>
</tr>
</tbody>
</table>

*Reported by the World Health Organization

### How Contagious Is It?

<table>
<thead>
<tr>
<th>Disease</th>
<th>$R_0$</th>
</tr>
</thead>
<tbody>
<tr>
<td>MERS-CoV</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Seasonal influenza</td>
<td>1-2</td>
</tr>
<tr>
<td>COVID-19</td>
<td>Estimates: 1.4-3.9</td>
</tr>
<tr>
<td>SARS-CoV</td>
<td>3</td>
</tr>
<tr>
<td>Measles</td>
<td>12-18</td>
</tr>
</tbody>
</table>

When Did the Outbreak Start?

Cluster of 44 Cases of pneumonia announced in Wuhan: 12/31/19

First exported case from China diagnosed: 1/13/20

Novel coronavirus isolated in China: 1/7/20

Entry screening at 3 U.S. airports began: 1/17/20

CDC developed rRT-PCR test: 1/19/20

First U.S. case diagnosed: 1/21/20

Source: www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports/
How Many People Are Sick?

Confirmed Cases as of 3/9/20
Reported by the World Health Organization

<table>
<thead>
<tr>
<th>Date</th>
<th>Cases</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/3/20</td>
<td>44 cases</td>
<td>6 countries</td>
</tr>
<tr>
<td>1/25/20</td>
<td>1,320 cases</td>
<td>15 countries</td>
</tr>
<tr>
<td>2/05/20</td>
<td>24,554 cases</td>
<td>27 countries</td>
</tr>
<tr>
<td>3/9/20</td>
<td>117,730 cases</td>
<td></td>
</tr>
</tbody>
</table>

Total 117,730 known cases; 4,259 deaths
China 80,757 known cases; 3,136 deaths
United States 800 known cases; 28 deaths
Virginia 5 cases; (38 PUIs ruled out)

Source: www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports/
Containment Phase

- Goal is to prevent the spread of infection
- Involves voluntary quarantine and isolation of people with recent travel to mainland China and Iran
- Evidence of containment failure
  - South Korea, Italy, Iran
- Local Efforts underway in WA, CA, NY, and more recently in Maryland, DC and Virginia among others
# Testing & Public Health Monitoring Data

<table>
<thead>
<tr>
<th>Number of Cases, Presumptive Positive or Confirmed</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Test Results Currently Pending</td>
<td>9</td>
</tr>
<tr>
<td>Number of People Currently under Public Health Monitoring</td>
<td>166</td>
</tr>
</tbody>
</table>

### Total Number of People Tested for COVID-19, by Region and Testing Status

<table>
<thead>
<tr>
<th>Region</th>
<th>Negative</th>
<th>Positive*</th>
<th>Total*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central</td>
<td>13</td>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td>Eastern</td>
<td>6</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>Northern</td>
<td>13</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>Southwest</td>
<td>4</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>38</td>
<td>9</td>
<td>50</td>
</tr>
</tbody>
</table>

### Total Number of People under Public Health Monitoring, by Monitoring Status

<table>
<thead>
<tr>
<th>Status</th>
<th>Low Risk**</th>
<th>Medium Risk</th>
<th>High Risk</th>
<th>Total**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Currently under Monitoring</td>
<td>23</td>
<td>121</td>
<td>22</td>
<td>166</td>
</tr>
<tr>
<td>Complexed Monitoring without further 140 PC Health Action</td>
<td>16</td>
<td>236</td>
<td>0</td>
<td>252</td>
</tr>
<tr>
<td>Total</td>
<td>39</td>
<td>357</td>
<td>22</td>
<td>418</td>
</tr>
</tbody>
</table>
1-2 times each day, Loudoun County receives lists of individuals in Loudoun County who may be at Medium or Low risk.

The Health Department attempts to interview everyone on that list to identify risk and have voluntary agreements signed, if appropriate.

A nursing on call schedule was started so people can be contacted 7 days a week and they can contact us 24/7.
Mitigation Phase

- Containment efforts are ongoing
- Comprehensive community education
  - General public
  - Healthcare community
  - Government/critical infrastructure
  - High risk populations
  - Hard to reach populations
  - Business community
- Responding to questions and concerns from the public
- Preparing for community impact
What Can People Do Now?

Stop the Spread of Germs:

• Wash your hands often with soap and water for at least 20 seconds. Use an alcohol-based hand sanitizer that contains at least 60% alcohol if soap and water are not available.

• Avoid touching your eyes, nose & mouth with unwashed hands.

• Avoid close contact with people who are sick.

• Stay home when you are sick.

• Cover your cough or sneeze with a tissue, then throw the tissue in the trash; or cough or sneeze into the sleeve of your shirt.

• Clean and disinfect frequently-touched objects and surfaces.

• CDC does not recommend that people who are well wear a facemask to protect themselves from respiratory diseases, including COVID-19. Facemasks should be used by people who show symptoms of COVID-19 to help prevent the spread of the disease to others, and by health workers.
What Can People Do Now?

• Notify your doctor if you are sick
  o As always, if you feel sick, contact your doctor
  o Even though there is no treatment for COVID-19, the flu and other treatable infections are still here
  o Testing for COVID-19 is now more widely available, including through private testing labs

• Do not go to the emergency room just for testing
  o Your doctor should be able to see you if you are sick
  o Doctors’ offices can submit specimens for testing the same way the hospital does
What Can LCPS Do Now?

• The Loudoun County Public School System and the Health Department have a long history of working well together to protect students and staff
  o H1N1 Influenza
  o Tuberculosis
  o Pertussis
  o Outbreaks in athletic teams
  o Preventing foodborne outbreaks

• We have been in regular discussions and planning concerning COVID-19 since January

• Reviewing the most up to date CDC and VDH guidelines
  o Guidelines are evolving and will likely continue to change as we learn more about COVID-19 and the best ways to keep our children and high risk populations safe
School Guidance - When COVID-19 is Not Yet Identified in Our Community

• Review, update, and implement emergency operations plans (EOPs)
  o Monitor and plan for absenteeism
  o Establish procedures for students and staff who are sick at school
  o Perform routine environmental cleaning
  o Create communications plans for use with the school community
School Guidance - When COVID-19 Cases Are Identified in Our Community

• If an ill student or staff member attended school prior to being confirmed as a COVID-19 case consider temporary school dismissal, determine when students and staff should return to schools and what additional steps are needed for the school community

• All decisions should be made in consultation with local public health as recommendations will likely change due to such factors as:
  o Prevalence of COVID-19 in the community
  o Ability to prevent spread within schools
  o Potential detrimental effects of dismissal
Stay Informed

• Sign up to receive regular email and text from Loudoun County:
  
  o Visit Loudoun.gov/coronavirus
  
  o Text LCCOVID19 to 888777
Resources

Loudoun County
  - LCPS: lcps.org/Page/227421
  - County: Loudoun.gov/coronavirus
  - Email: health@Loudoun.gov
  - Hotline: 703-737-8300

Virginia Department of Health (VDH)
  - www.vdh.virginia.gov/coronavirus

Centers for Disease Control and Prevention (CDC)
  - www.cdc.gov/coronavirus/2019-nCoV