COVID-19 in Boone County and how you can help

Albert Hsu, MD
President-elect, Boone County Medical Society

April 1, 2020
Disclosures / Disclaimers

• Please understand that this information is constantly-evolving.
  • Pandemics are difficult to model and predict.
  • Some “facts” stated just last week, may now already be out-of-date.

• I AM NOT YOUR DOCTOR.
  • Please see your primary care provider for any personal medical questions.

• Today’s town hall is a general informational session to the Mizzou student community.
  • I will direct you to official websites (like CDC) for public health recommendations.
Outline

• What is COVID-19?
• Am I at risk?
• COVID-19 is coming!
• #FlattenTheCurve
• How to Help
Outline

• What is COVID-19?
• Am I at risk?
• COVID-19 is coming!
• #FlattenTheCurve
• How to Help
Coronaviruses

Coronavirus particle is shown to contain a single-stranded, positive-sense RNA genome bound to a nucleoprotein (helical nucleocapsid) surrounded by a lipid bilayer envelope.

Petal- or club-shaped spikes (spike glycoprotein) project from the surface of the envelope giving the appearance of a solar corona.

There are several other surface proteins, including hemagglutinin-acetylerase glycoprotein, membrane glycoprotein, and small envelope glycoprotein.
SARS-CoV-1
2002-2003

• Severe Acute Respiratory Syndrome
  • First case was retrospectively recognized as having occurred in Nov 2002
  • By July 2003, international spread of SARS-CoV resulted in 8098 SARS cases in 26 countries, with 774 deaths

• WHO reported the last human chain of transmission, and that the epidemic had been broken on 5 July 2003
• The etiological agent, the SARS coronavirus (SARS-CoV) is believed to be an animal virus that crossed the species barrier, or changes in human behavior increased opportunities for human exposure to the virus. Virus adaptation enabled human-to-human transmission.
SARS-CoV-2 2019

- SARS-COV-2 is the virus that causes COVID-19 disease
- Symptoms:
  - Fever
  - Cough
  - Shortness of breath
  - GI disturbance
- Warning signs
  - Trouble breathing
  - Persistent pain or pressure in the chest
  - New confusion or inability to arouse
  - Bluish lips or face
Case fatality rates: COVID-19 vs. US Seasonal Flu

Case fatality rate (CFR) is specific to a location and time. It is calculated by dividing the total number of deaths from a disease by the number of confirmed cases.

Seasonal Flu
Case fatality rates for the influenza season 2018-19 in the USA.
Symptomatic cases are calculated based on models which aim to account for under-reporting – figures based on medical visits are therefore also shown in square brackets, which may be a closer comparison to COVID-19 case fatality rates.

COVID-19
Case fatality rates for the COVID-19 outbreak in China, for the period up to February 11, 2020.


Licensed under CC-BY by the authors Hannah Ritchie and Max Roser.

https://ourworldindata.org/coronavirus
Case fatality rates: COVID-19 vs. US Seasonal Flu

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OurWorldInData.org - Research and data to make progress against the world’s largest problems.

Licensed under CC-BY by the authors Hannah Ritchie and Max Roser.

https://ourworldindata.org/coronavirus
CoVID-19: Progression of Disease

Onset → Mild → Moderate → Severe → Critical → Isolation/hospitalization → ICU → Death → Recovery

CoVID-19: Case Fatality Rates

- China (3.5%)
- China, excluding Hubei Province (0.8%)
- 82 countries, territories, and areas (4.2%)
- Cruise ship (0.6%)

- Broad range of 0.25%–3.0%

Wilson et al. Case-Fatality Risk Estimates for COVID-19
Calculated by Using a Lag time for Fatality. EID. 3/13/20
Outline

- What is COVID-19?
- **Am I at risk?**
  - Of death? (probably not)
  - Of critical illness? (possibly!)
- COVID-19 is coming!
- #FlattenTheCurve
- How to Help
People at higher risk for severe illness (CDC)

• People aged 65 years and older
• Healthcare workers
• Long-term care facilities, Nursing homes
• High-risk conditions
  • Chronic lung disease, moderate to severe asthma
  • Serious heart conditions
  • Severe obesity (body mass index &ge; 40), or uncontrolled underlying medical conditions such as diabetes, renal failure, liver disease
  • Immunocompromised, including cancer treatment, smoking, bone marrow or other transplant, immune deficiencies, poorly controlled HIV or AIDS, prolonged use of corticosteroids

Coronavirus: early-stage case fatality rates by underlying health condition in China

Case fatality rate (CFR) is calculated by dividing the total number of deaths from a disease by the number of confirmed cases. Data is based on early-stage analysis of the COVID-19 outbreak in China in the period up to February 11, 2020.

- Cardiovascular disease: 10.5%
- Diabetes: 7.3%
- Chronic respiratory disease: 6.3%
- Hypertension: 6%
- Cancer: 5.6%
- No health condition: 0.9%

10.5% of people with a cardiovascular disease who were diagnosed with COVID-19 died.

Individuals with underlying health conditions are more vulnerable than those without.

## Table. Case-Fatality Rate by Age Group in Italy and China

<table>
<thead>
<tr>
<th>Age groups, y</th>
<th>Italy as of March 17, 2020</th>
<th>China as of February 11, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. of deaths (% of total)</td>
<td>Case-fatality rate, %</td>
</tr>
<tr>
<td>All</td>
<td>1625 (100)</td>
<td>7.2</td>
</tr>
<tr>
<td>0-9</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>10-19</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>20-29</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>30-39</td>
<td>4 (0.3)</td>
<td>0.3</td>
</tr>
<tr>
<td>40-49</td>
<td>10 (0.6)</td>
<td>0.4</td>
</tr>
<tr>
<td>50-59</td>
<td>43 (2.7)</td>
<td>1.0</td>
</tr>
<tr>
<td>60-69</td>
<td>139 (8.6)</td>
<td>3.5</td>
</tr>
<tr>
<td>70-79</td>
<td>578 (35.6)</td>
<td>12.8</td>
</tr>
<tr>
<td>≥80</td>
<td>850 (52.3)</td>
<td>20.2</td>
</tr>
</tbody>
</table>

Onder et al. JAMA 2020
But even if you’re not at risk of death, you’re at risk of critical illness....
How long does COVID last on surfaces?

Cardboard
24 hours

Stainless Steel
24-48 hours

Plastic
48-72 hours

https://www.medrxiv.org/content/10.1101/2020.03.09.20033217v2
Outline

• What is COVID-19?
• Am I at risk?
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• #FlattenTheCurve
• How to Help
• As of Sun 3/22/20 (10 days ago):
• As of Tue 3/24/20 (8 days ago):

Coronavirus COVID-19 Global Cases by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)

Total Confirmed: 398,107

Total Deaths: 17,454
- 6,077 deaths in Italy
- 3,160 deaths in Hubei, China
- 2,800 deaths in Spain
- 1,934 deaths in Iran
- 860 deaths in France
- 422 deaths in United Kingdom
- 276 deaths in Netherlands
- 133 deaths in Germany

Total Recovered: 103,334
- 66,324 recovered in Hubei, China
- 8,913 recovered in Iran
- 7,432 recovered in Italy
- 3,794 recovered in Spain
- 3,507 recovered in Korea, South
- 2,700 recovered in France
- 1,311 recovered in Guangdong, China
- 1,250 recovered in Henan, China

Cumulative Confirmed Cases
- Total Confirmed: 398,107
- Confirmed Cases by Country/Region/Sovereignty:
  - China: 81,586
  - Italy: 63,927
  - US: 46,548
  - Spain: 39,673
  - Germany: 31,370
  - Iran: 24,811
  - France: 20,149
  - Switzerland: 9,117
  - Korea, South: 9,037
  - United Kingdom: 6,618
  - Netherlands: 5,578
  - Austria: 4,971
  - Belgium: 4,269
  - Norway: 2,753
- Total Health Pro
  - Admin1
  - Admin2
  - Admin3

Last Updated at (M/D/YYYY): 3/24/20, 10:01:27 AM

Data sources: WHO, CDC, ECDC, NHC, DXY, 1point3acres, Worldometers.info, BNO, state and national government health departments, and local media reports. Read more in this blog.
As of Thur 3/26/20 (6 days ago):

- Total Confirmed: 521,086
- Total Deaths: 23,639
- Total Recovered: 122,058

Confirmed Cases by Country/Region/Soeverignty:
- China: 81,782
- Italy: 80,589
- US: 80,021
- Spain: 56,197
- Germany: 43,646
- France: 29,551
- Iran: 29,406
- Switzerland: 11,811
- United Kingdom: 7,972
- South Korea: 6,747
- Austria: 6,233
- Belgium: 5,878
- Canada: 3,692
- Turkey: 3,429

Cumulative Confirmed Cases: 175 countries/regions


Data sources: WHO, CDC, ECDC, NHC, DXY, 1point3acres, Worldometers.info, BNO, state and national government health departments, and local media reports. Read more in this blog.
As of Sun 3/29/20 (3 days ago):

- Total Confirmed: 678,720
- Total Deaths: 31,700
- Total Recovered: 145,609

Countries with highest confirmed cases:
- China: 124,886
- Spain: 76,797
- Germany: 58,247
- Italy: 92,472
- Iran: 38,309
- France: 36,105
- United Kingdom: 17,320
- Switzerland: 14,352
- Belgium: 10,836
- Netherlands: 9,819
- Korea, South: 9,583
- Austria: 8,411
- Turkey: 7,402

Countries with highest deaths:
- China: 10,023
- Italy: 6,528
- Spain: 3,182
- Germany: 2,640
- Iran: 2,314
- United Kingdom: 1,019
- New York City, New York US: 672
- Netherlands: 639


Data sources: WHO, CDC, ECDC, NHC, DXY, 1point3acres, Worldometers.info, BNO, state and national government health departments, and local media reports.
As of Tue 3/31/20 (yesterday):

- Total Confirmed: 809,608
- Total Deaths: 39,545
- Total Recovered: 172,869

Confirmed Cases by Country/Region/Sovereignty:
- United States: 145,874
- Italy: 101,739
- Spain: 94,417
- China: 82,278
- Germany: 68,180
- France: 45,232
- Iran: 44,605
- United Kingdom: 25,474
- Switzerland: 16,186
- Belgium: 12,775
- Netherlands: 12,662
- Turkey: 10,827
- Austria: 10,038
- Korea, South: 9,786

Cumulative Confirmed Cases and Active Cases.
• As of today at noon, Wed 4/1/20:
COVID-19 – Daily new confirmed cases – rolling 3-day average

The number of confirmed cases is lower than the number of total cases. The main reason for this is limited testing.

Source: European CDC – Situation Update Worldwide – Last updated 31st March, 13:00 (London time)

Note: The rolling average is the average across three days – the confirmed cases on the particular date, and those on the previous and the following day. For example, the value for 26th March is the average over the 25th, 26th and 27th March. The latest value is calculated as the average of confirmed cases on the particular date and the previous day.
# Summary of COVID Cases and Monitoring

<table>
<thead>
<tr>
<th></th>
<th># of Positive COVID Cases</th>
<th># of Travelers Being Monitored:</th>
</tr>
</thead>
<tbody>
<tr>
<td>in MO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current: 69</td>
<td>Current: 14</td>
<td>Current: 3</td>
</tr>
<tr>
<td>Recovered: 1</td>
<td>Recovered: 0</td>
<td></td>
</tr>
<tr>
<td>Deaths: 3</td>
<td>Deaths: 1</td>
<td></td>
</tr>
<tr>
<td>Total: 73</td>
<td>Total: 15</td>
<td></td>
</tr>
</tbody>
</table>
Columbia/Boone County
Department of Public Health and Human Services
End of Day Summary 3/23/20 (9 days ago)

<table>
<thead>
<tr>
<th></th>
<th># of Positive COVID Cases</th>
<th># of Positive COVID Cases</th>
<th># of travelers being monitored:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in MO</td>
<td>in Boone</td>
<td></td>
</tr>
<tr>
<td>Current:</td>
<td>179</td>
<td>19</td>
<td>Current: 3</td>
</tr>
<tr>
<td>Recovered:</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Deaths:</td>
<td>3</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Total:</td>
<td>183</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>
### Summary of COVID Cases and Monitoring

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<tr>
<th></th>
<th># of Positive COVID Cases</th>
<th># of travelers being monitored:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong># of Positive COVID Cases in MO</strong></td>
<td>Current: 502</td>
<td>Current: 3</td>
</tr>
<tr>
<td></td>
<td>Recovered: 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Deaths: 8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total: 502</td>
<td></td>
</tr>
<tr>
<td><strong># of Positive COVID Cases in Boone</strong></td>
<td>Current: 22</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Recovered: 11</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Deaths: 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total: 34</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MO</td>
<td>Boone</td>
</tr>
<tr>
<td>---------------------------</td>
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<td>----------------------------</td>
</tr>
<tr>
<td><strong># of Positive COVID Cases</strong></td>
<td><strong>Current: 1,0</strong></td>
<td><strong>Current: 38</strong></td>
</tr>
<tr>
<td><strong>in MO</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Deaths: 13</strong></td>
<td></td>
<td><strong>Recovered: 20</strong></td>
</tr>
<tr>
<td><strong>Total: 1,081</strong></td>
<td></td>
<td><strong>Deaths: 1</strong></td>
</tr>
<tr>
<td><strong>Total: 58</strong></td>
<td></td>
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</tbody>
</table>
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<th># of Positive COVID Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>in MO</td>
</tr>
<tr>
<td># of Positive COVID Cases</td>
<td>1,327</td>
</tr>
<tr>
<td>Deaths: 14</td>
<td></td>
</tr>
<tr>
<td>Total: 1,327</td>
<td></td>
</tr>
<tr>
<td></td>
<td># of Positive COVID Cases</td>
</tr>
<tr>
<td></td>
<td>in Boone</td>
</tr>
<tr>
<td>Current: 39</td>
<td></td>
</tr>
<tr>
<td>Recovered: 23</td>
<td></td>
</tr>
<tr>
<td>Deaths: 1</td>
<td></td>
</tr>
<tr>
<td>Total: 63</td>
<td></td>
</tr>
</tbody>
</table>
Outline

• What is COVID-19?
• Am I at risk?
• COVID-19 is coming!
• #FlattenTheCurve
• How to Help
• From Tue 3/10/20 webinar, Medical Society of Virginia:
• From Tue 3/10/20 webinar, Medical Society of Virginia:
FLATTENING THE CORONAVIRUS CURVE

# of cases
Without Protective Measures
With Protective Measures

Health care system capacity

Time since first case

Source: New York Times/CDC/The Economist
1918 Flu Pandemic: Effect of delaying preventative measures

Philadelphia and St Louis

Source: Hatchett et al., PNAS (2007)
Outline

• What is COVID-19?
• Am I at risk?
• COVID-19 is coming!
• #FlattenTheCurve
• **How to Help**
  • 1) Shelter-in-Place
  • 2) como.gov => CoMoHelps.org
  • 3) Stay current
  • 4) Donate blood
  • 5) Get organized
Outline

• What is COVID-19?
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Columbia, Boone County stay-at-home order effective 8 a.m. Wednesday

Columbia and Boone County will go under a stay-at-home order at 8 a.m. Wednesday, city and county officials announced. The order will be in effect for one month and includes fines up to $1,000 and a potential jail sentence for violators. The order is intended to halt the spread of the novel coronavirus, which was shown on Monday to be spreading...
Projected hospitalizations
Missouri

- Limited Action
- 3 months of Lockdown
- 3 months of Social Distancing
- Available Hospital Beds
- 3 months of Shelter in Place
March 23, 2020

Governor Michael L. Parson
Capitol Building, Room 216
Jefferson City, MO 65101

Governor Parson:

On behalf of the physicians and surgeons practicing in Missouri, the Missouri State Medical Association requests the enactment of a “shelter-in-place” requirement by executive order.

We appreciate the previous actions you have taken regarding this crisis, and understand the interwoven policy issues at play during this critical time. However, we now believe that a statewide “shelter-in-place” order is the only way to curb the exponential spread of COVID-19 in Missouri.
If things progress as is, COVID-19 patients will deplete the state’s available hospital beds, ventilators, and precious personal protection equipment. Any additional time without a “shelter-in-place” requirement wastes crucial healthcare resources, including manpower.

As physicians, we understand our role as the first line of defense against this virus. We accept the likelihood that a number of physicians will contract COVID-19 while treating the citizens of Missouri. Despite that known fact, we are prepared to carry out our responsibilities for as long as needed.

We ask for your assistance as we begin this difficult journey.

Regards,

James A. DiRenna, DO, FAAFP
President

Missouri State Medical Association
www.msma.org
800-869-6762
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Student volunteer opportunities

• For general volunteers: go to como.gov, click on “coronavirus official info”
Student volunteer opportunities

• For general volunteers: goto como.gov, click on “coronavirus official info” => then click on “give help”
Student volunteer opportunities

• For general volunteers: goto como.gov, click on “coronavirus official info” => then click on “give help” => that redirects you to “CoMoHelps” webpage
Caution

• Caution: beware of volunteer opportunities that may violate “social distancing” recommendations – check with your faculty first!
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  • 5) Get organized
Helpful websites

- City of Columbia: https://www.como.gov/coronavirus/
- Missouri DHSS: https://health.mo.gov/
- BCMS: https://www.boonecountymedicalsociety.org/covid-19-resources.html
Help stop COVID-19
Do the Five

HANDS
Wash them often

ELBOW
Cough into it

FACE
Don’t touch it

FEET
Stay more than 6ft apart

FEEL
Sick? Stay Home

Missouri Novel Coronavirus Information Hotline
877-435-8411

Have questions? Chat about COVID-19
COVID-19 STATE TEAM MEMBER RESOURCES

How do I...
- learn about COVID-19
- learn about the flu
- report adult abuse and neglect?
- apply for medical marijuana identification card?
- find opioid crisis response?
- find my local health department?
- request a birth & death certificate?
- find child care provider inspections?
- apply for WIC?
- see more...
Helpful websites

- City of Columbia: https://www.como.gov/coronavirus/
- Missouri DHHS: https://health.mo.gov/
- BCMS: https://www.boonecountymedicalsociety.org/covid-19-resources.html
Local Resources

- Columbia/Boone County Department of Health

State Resources

- Missouri Department of Health and Senior Services
- MO HealthNet
- Missouri State Medical Association Resource Page
- Missouri Hospital Association
- DHSS: COVID-19 Fact Sheet
- DHSS: COVID-19 Call Center Information/Script
- DHSS: Missouri Pandemic Influenza Response Plan

National Resources

AMA

- A Physicians Guide to COVID-19
- AMA COVID-19 News Page

World Health Organization

Centers for Disease Control and Prevention

COVID-19 Webinar Handouts

March 24, 2020 Handouts

- Resource list for providers
- 3-23-20 DHSS HU Criteria to Guide for Evaluation and Laboratory Testing
- Information for possible exposure in healthcare professionals
Coronavirus Disease 2019 (COVID-19)

Missouri health care providers and public health practitioners are being asked to contact DHSS or their local public health agency to immediately report any patients who meet the criteria for evaluation for COVID-19.

COVID-19 Conference Calls

- DHSS & MSMA Partner for COVID-19 Conference Calls – Participate Here

Missouri

- MSMA Asks Governor Parson for "Shelter-In-Place" Order
- MSMA Asks Congress for Physician Financial Stability Involving Economic Relief
- Missouri Department of Health and Senior Services – Report COVID-19 Virus
- DHSS: COVID-19 Fact Sheet
- DHSS: COVID-19 Call Center Information/Script
- DHSS: Missouri Pandemic Influenza Response Plan
- Showme Response
- Boone County Medical Society COVID-19 Webinar Slides

Centers for Disease Control/World Health Organization Developing

- CDC – What You Need to Know About COVID-19
- CDC – COVID-19 Health Alert Network for Emergency Health Professionals
- CDC – Travel Health & COVID-19 Information for Travelers
- CDC – COVID-19 FAQs
- World Health Organization Updates
- Johns Hopkins Global COVID-19 Count
PUBLIC HEALTH

COVID-19 (2019 novel coronavirus) resource center for physicians

The AMA and Centers for Disease Control and Prevention (CDC) are closely monitoring the outbreak of COVID-19 (2019 novel coronavirus).

Featured updates   Clinical information   AMA collections   Advocacy   Medical ethics

Stay informed and updated with the AMA

Call for Ideas—Conserving Supply of Personal Protective Equipment

—AMA is inviting immediate suggestions. Please help patients and health care workers.
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  • 2) como.gov => CoMoHelps.org
  • 3) Stay current
  • 4) Donate blood -> please visit your American Red Cross
  • 5) Get organized
Give Blood. Find a Drive.

ZIP or Sponsor Code

Find A Drive

Advanced Search

Blood drive availability during COVID-19 outbreak.

We are working to quickly identify and replace blood drives canceled due to workplace and school closures. Search above for opportunities near you and check back often as we are continuously adding new donation opportunities. If you don’t see available appointments near you in the near future, please search 14 days out or beyond. The need for blood is constant - patients need your help.
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Get organized!

• Suggested Principles for student volunteers:
  • (1) School responsibilities first! Do well on your exams, school requirements.
  • (2) Let’s anticipate that our response to Coronavirus will go on for weeks-to-months.
  • (3) Many of us are going to get sick or may need to take time off to help care for friends and family. Some students will graduate soon. Succession planning is key in a crisis.
Find a **faculty advisor/mentor/advocate**

- Options for organized volunteer efforts
  - (1) Lobbying
  - (2) Sharing stories
  - (3) Community support
  - (4) Social media

- Cautions: beware of volunteer opportunities that may violate “social distancing” recommendations – check with your faculty first!
Disclosures / Disclaimers

• Please understand that this information is constantly-evolving.
  • Pandemics are difficult to model and predict.
  • Some “facts” stated just last week, may now be out-of-date.

• I AM NOT YOUR DOCTOR.
  • Please see your primary care provider for any personal medical questions.

• Today’s town hall is a general informational session to the Mizzou student community.
  • I will direct you to official websites (like CDC) for public health recommendations.
Summary

• 1.) For those panicked about COVID-19, *people your age are unlikely to die from this.*
Summary

• 1.) For those panicked about COVID-19, people your age are unlikely to die from this.

• 2.) For those who are nonchalant and overly complacent about this worldwide pandemic, please be aware that some unlucky younger folks are sometimes getting critically ill, and needing oxygen or even ICU-level care from COVID-19.
Summary

• 3.) For everyone, the main reason for cancelling sports events, closing schools/churches, and encouraging social distancing is to #FlattenTheCurve, to *protect the elderly*
  *and* *your healthcare workers* on the front lines.

• Your nurses, doctors, and first responders are out there protecting you; please help protect us by slowing the spread.
Summary

• 4.) *COVID-19 is coming.*

• I would argue that our goal is not to remain disease-free forever, but to slow the spread so as to not overwhelm our healthcare system.

• COVID-19 is currently hitting urban centers and then spreading out from there, so many of us anticipate a surge of cases in Missouri, over the coming weeks.
Summary

• 5.) It’s probably not the best time to be in a motor vehicle accident in Italy. Or to need ICU care in Italy. Not right now.
  • *Please don’t do stupid stuff.*
Listen to your mother!

• Wash your hands.
• Don’t do stupid stuff.
Novel Coronavirus (COVID-19)

As the number of coronavirus cases grows in the state, you may be wondering how MU Health Care is adapting and continuing to care for the community. Know that your safety is our top priority.

Our infectious disease experts are working closely with local and state public health agencies, as well as following guidelines from the Centers for Disease Control and Prevention (CDC), to ensure we have the most up-to-date information and best care plans for our patients.

Letter from the CEO
To our family, friends and neighbors: a letter from CEO Jonathan Curtright

READ THE LETTER

MU HEALTH CARE DATA

Testing data
Testing data is for all tests, drive-thru and other facilities, for our entire 25-county service area, not just Boone County.

<table>
<thead>
<tr>
<th>TOTAL TESTS</th>
<th>POSITIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,561</td>
<td>82</td>
</tr>
</tbody>
</table>

Inpatient data
Inpatient data is information about patients in our hospitals. Pending indicates inpatients for whom test results are pending.
For more information, e-mail bcms@socket.net or goto:

https://health.mo.gov/
https://www.como.gov/coronavirus/

https://www.boonecountymedicalsociety.org/covid-19-resources.html