



Briefing on COVID-19

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PROTECTING, MAINTAINING AND IMPROVING THE HEALTH OF ALL MINNESOTANS

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Situation to Date

Spread of Coronavirus:

- 89,197 cases and (3,048 deaths) as of March 2
- 80,026 cases & 2,803 deaths in China
- Cases confirmed in multiple other countries
- COVID-19 Confirmed Cases in US:
 - 86 confirmed and presumptive cases
- COVID-19 Cases among Persons Repatriated to the United States:
 - 50 Positive tests
 - 3 Wuhan, China
 - 47 Diamond Princess Cruise Ship

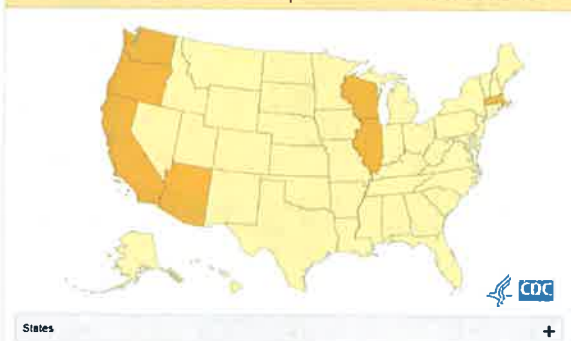
Locations with Confirmed COVID-19 Cases
As of February 29, 2020



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Weekend Updates

States with Confirmed and Presumptive Positive Cases of COVID-19*



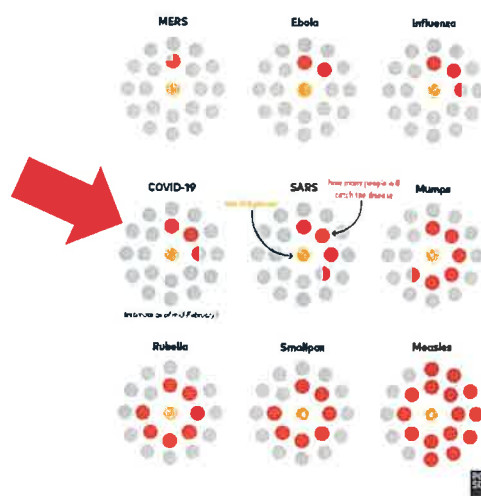
*This map represents cases detected and tested in the United States through U.S. public health surveillance systems since January 21, 2020. It does not include people who returned to the U.S. via State Department-chartered flights.

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- First death identified in a man in his 50's in WA (underlying health conditions.)
- Case identified in Skilled Nursing Facility; outbreak likely with significant numbers of ill residents and workers currently being tested
- Health Care workers with COVID 19
- US suspended entry of foreign nationals who have been in Iran in last 14 days

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How infectious is COVID compared to other diseases?



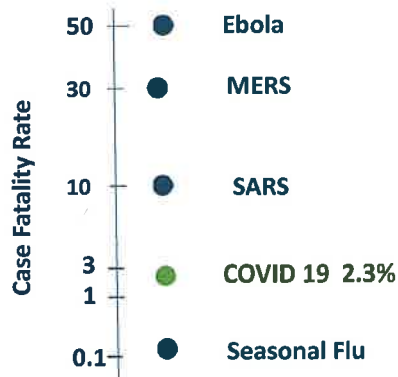
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IMAGE SOURCE: <https://www.popsi.com/story/health/how-diseases-spread/>

- We use "basic reproduction number," known as R_0 , to measure how a disease spreads in a population
- This number tells us how many people each infected person will in turn infect.
- R_0 is a measure of how infectious a disease is
 - If R_0 is less than 1, disease typically dies out.
 - R_0 larger than 1 means each sick person infects at least one other person on average, who then can infect others, until disease spreads through a population.
- The R_0 for COVID-19 is between 2-3

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How lethal is COVID 19 compared to other diseases?



- Estimated case fatality for COVID-19 is 2.3% *
- Seasonal flu 0.1%
- SARS 10%
- MERS 30%
- Ebola 50%

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COVID 19 Characteristics-China CDC Summary

- Spectrum of illness:
 - 81% of cases Mild (non-pneumonia and mild pneumonia)
 - 14% of cases Severe (difficulty breathing, rapid respirations, lower oxygenation saturation levels, and rapidly developing lung infiltrates)
 - 5% of patients admitted to ICU
 - Overall 2.3% mortality rate*
 - Higher mortality in elderly and those with underlying health conditions

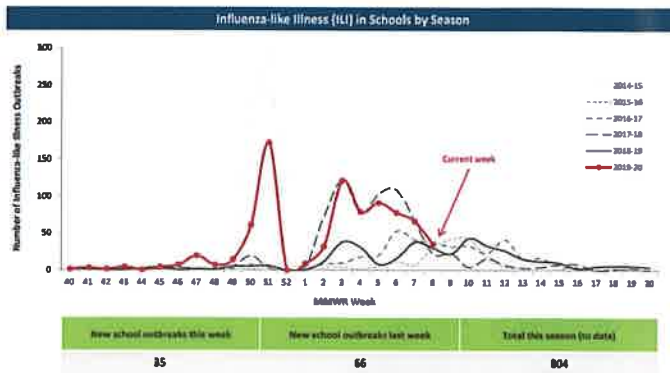


中国疾病预防控制中心
CHINESE CENTER FOR DISEASE CONTROL AND PREVENTION



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Influenza Activity in Minnesota to date

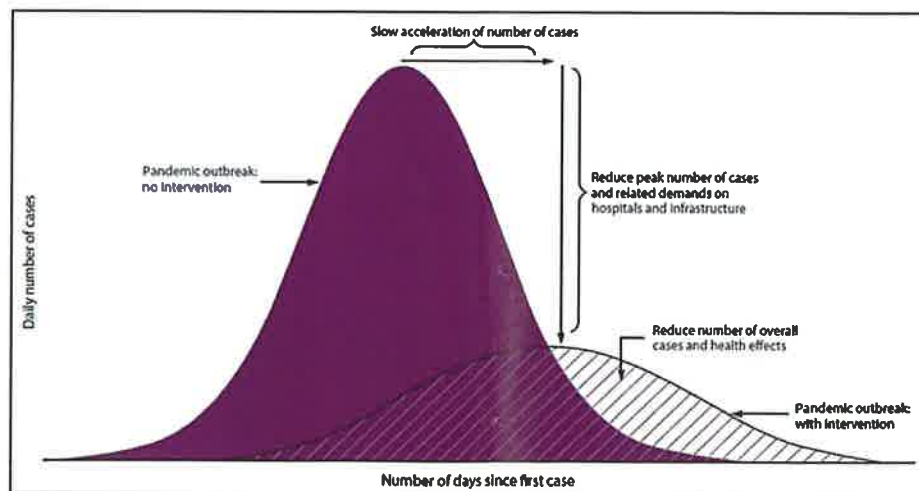


Minnesota Department of Health Weekly Influenza & Respiratory Activity Report for Week Ending February 22, 2020 | WEEK 8

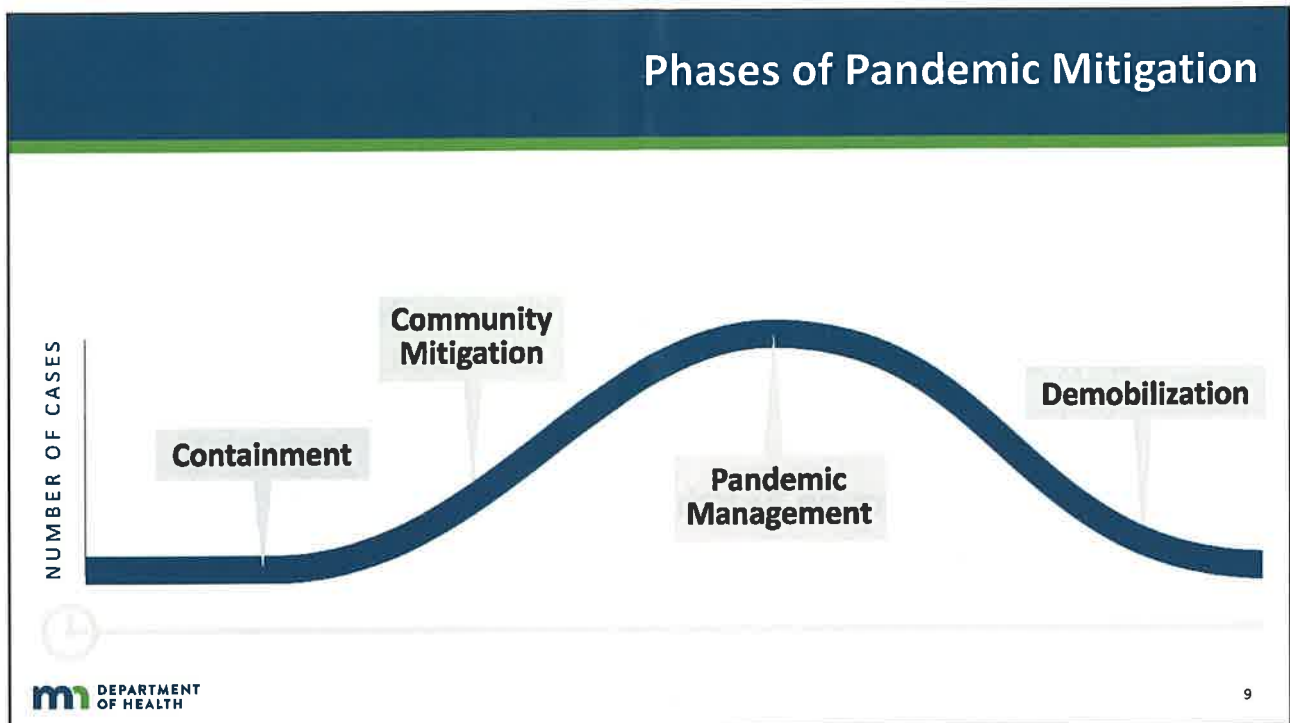
- We are experiencing widespread activity
- We have had 2,944 hospitalizations to date
- There have been 72 deaths, 2 of them pediatric
- 833 outbreaks of influenza-like illness in K-12 schools
- 75 outbreaks of influenza in LTCF
- The percent of influenza tests that are positive is 34%

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Purpose of Pandemic Intervention




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Phases of Pandemic Mitigation

- **Containment** (handful of cases)
 - When a first case is identified in MN, we will focus on isolation, contact identification, and quarantine.
- **Community mitigation** (multiple cases from different areas/exposures)
 - Consider temporary school closings, postpone large community events, promote virtual/video faith services, etc.
- **Pandemic management** (widespread transmission – hundreds to thousands of cases from across the state)
 - Provide oversight and management of scarce resources, continue to encourage self-isolation



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Current US Response

- Dual approach: Containment AND Community Mitigation
 - Slow transmission
 - Minimize mortality
 - Minimize impact on health care system and infrastructure



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Minnesota Responds

- Local public health Joint Information Center (JIC) activated
- State Agency JIC activated in partnership with Department of Public Safety (DPS)
- MDH, DPS unified coordination of state agencies activation
- Department of Administration preparing to implement enhanced cleaning protocols

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Minnesota Responds

- MDH working on containment and expanding to mitigation
 - Working with clinicians to identify/evaluate patients who may have COVID-19 based on clinical and epidemiological data
 - Public Health Laboratory testing now online
 - Working closely with Minnesota Hospital Association and clinicians
 - Community mitigation planning has started and will provide recommendations about public gatherings

Minnesota Responds

- Legal review
 - Quarantine and isolation protocols
 - Public Health Emergency Response Fund
 - Public Health Emergency Authority



Minnesota Responds

- Health Care Facilities, including Skilled Nursing Facilities
 - Outreach to key stakeholders
 - Weekly calls coordinated with MHA
 - Guidance distributed



Minnesota Responds

- Partner coordination activated
 - Local public health: community outreach, wrap-around services
 - Health Care Coalitions: Crisis Standards of Care, supply management
 - K-12 education: MN Department of Education leading calls, communication



Minnesota Responds

- Ongoing stakeholder connections/outreach
 - Long-term care (Leading Age, Care Providers)
 - Schools (MDE, superintendents, nurses)
 - Hospitals and health care sector
 - Community groups
 - Other state and local government agencies
 - Elected officials



Protective Recommendations for Public

- Standard guidance for avoiding respiratory infections also applies for COVID-19:
 - Stay home when sick with cold/flu-like symptoms
 - Cover your cough
 - Wash your hands well
 - Avoid touching your face – especially eyes, nose and mouth



Protective Recommendations for Public

- Keeping informed
 - CDC website (www.cdc.gov)
 - Minnesota Department of Health website (www.health.state.mn.us)



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Thank You!

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