

Briefing on COVID-19

Jan Malcolm, Commissioner
Minnesota Department of Health

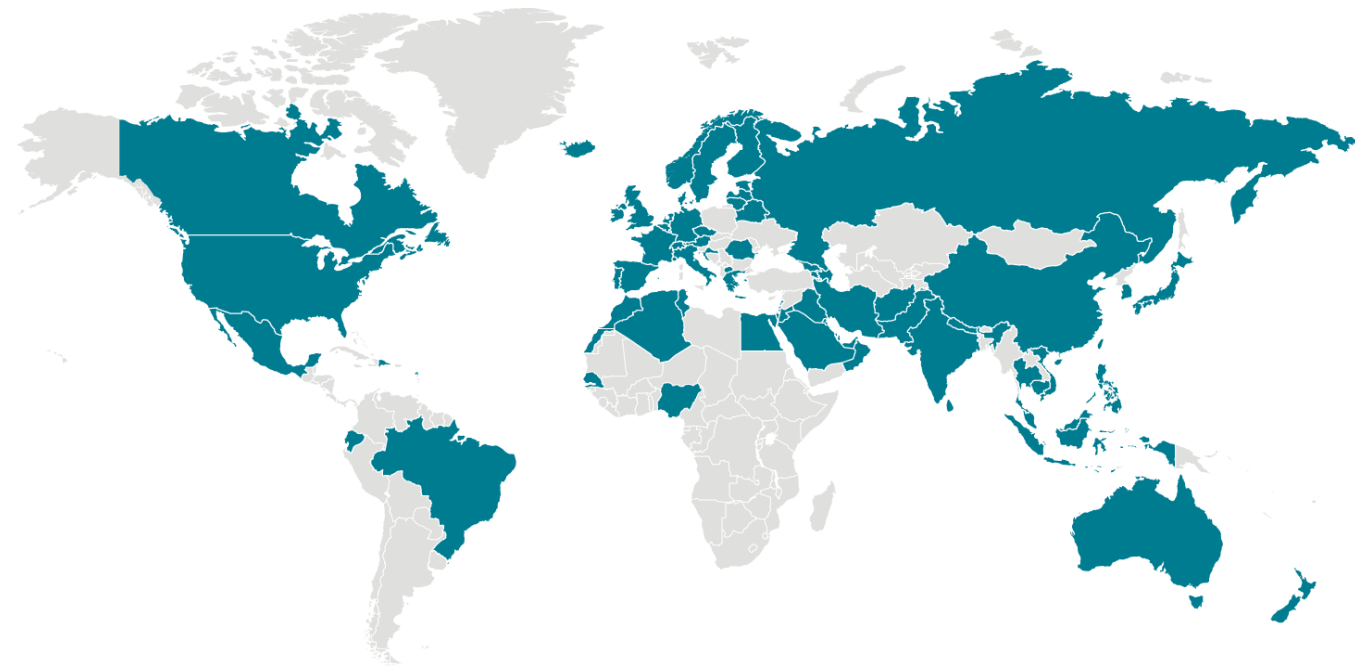
PROTECTING, MAINTAINING AND IMPROVING THE HEALTH OF ALL MINNESOTANS

Situation to Date

Spread of Coronavirus:

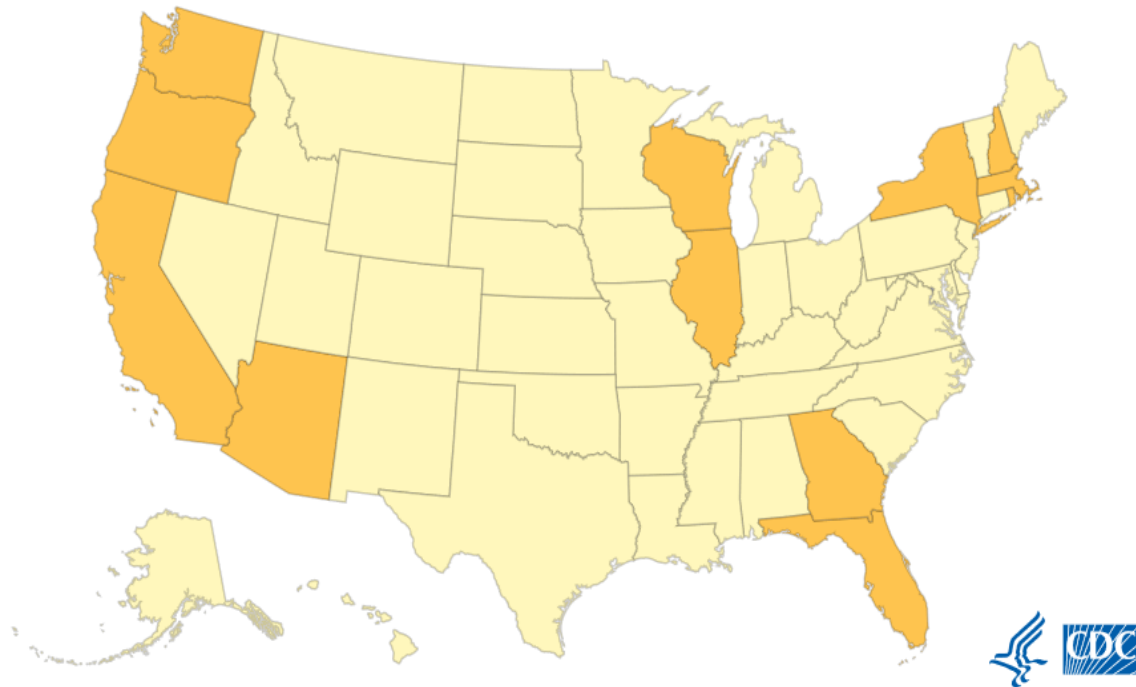
- **92,314 cases and 3,131 deaths as of March 3**
- 80,026 cases & 2,803 deaths in China
- Cases confirmed in multiple other countries
- **COVID-19 Confirmed Cases in US:**
 - 60 confirmed and presumptive cases and 6 deaths in US
- **COVID-19 Cases among Persons Repatriated to the United States:**
 - 48 Positive tests
 - 3 Wuhan, China
 - 45 Diamond Princess Cruise Ship

Locations with Confirmed COVID-19 Cases As of March 3, 2020



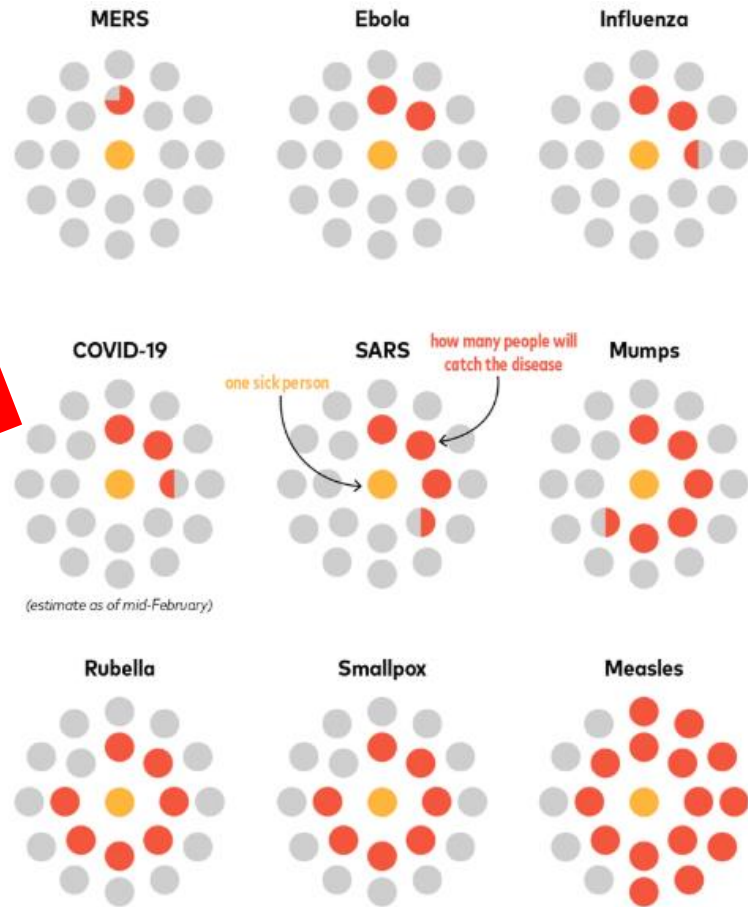
States Reporting Cases

States Reporting Cases of COVID-19 to CDC*



- 12 states reporting cases as of March 3
- CDC is reporting 60 total cases, 6 deaths
- However, Washington State is now confirming 27 cases of COVID-19 and 9 deaths, including at a Skilled Nursing Facility
- Health Care workers with COVID-19
- US suspended entry of foreign nationals who have been in Iran in last 14 days
- CDC recommends travelers avoid all nonessential travel to the People's Republic of China

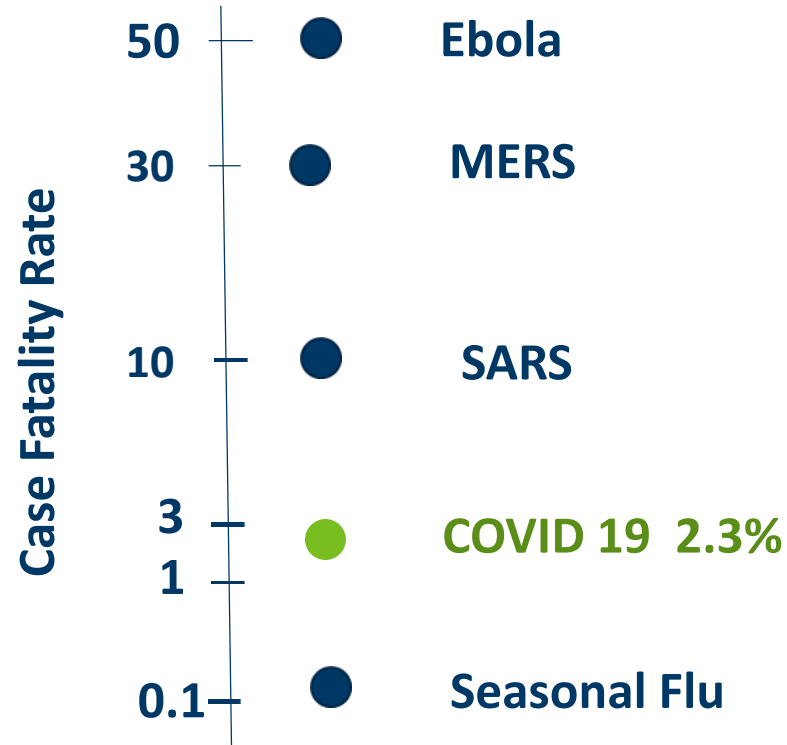
How infectious is COVID compared to other diseases?



- 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



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%

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



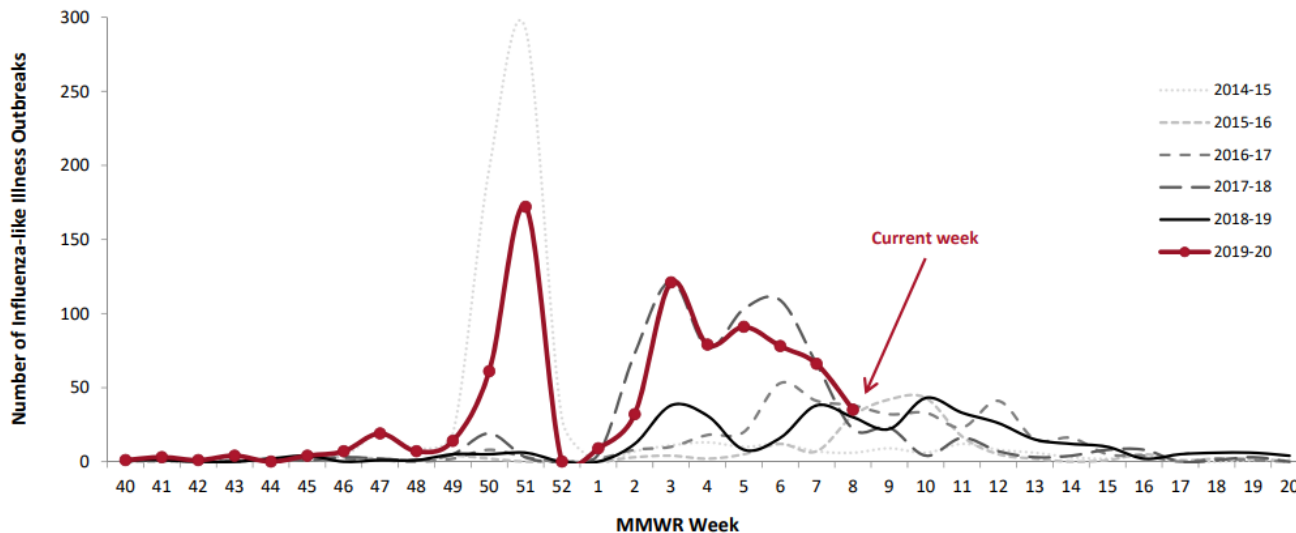
中国疾病预防控制中心

CHINESE CENTER FOR DISEASE CONTROL AND PREVENTION



Influenza Activity in Minnesota to date

Influenza-like Illness (ILI) in Schools by Season



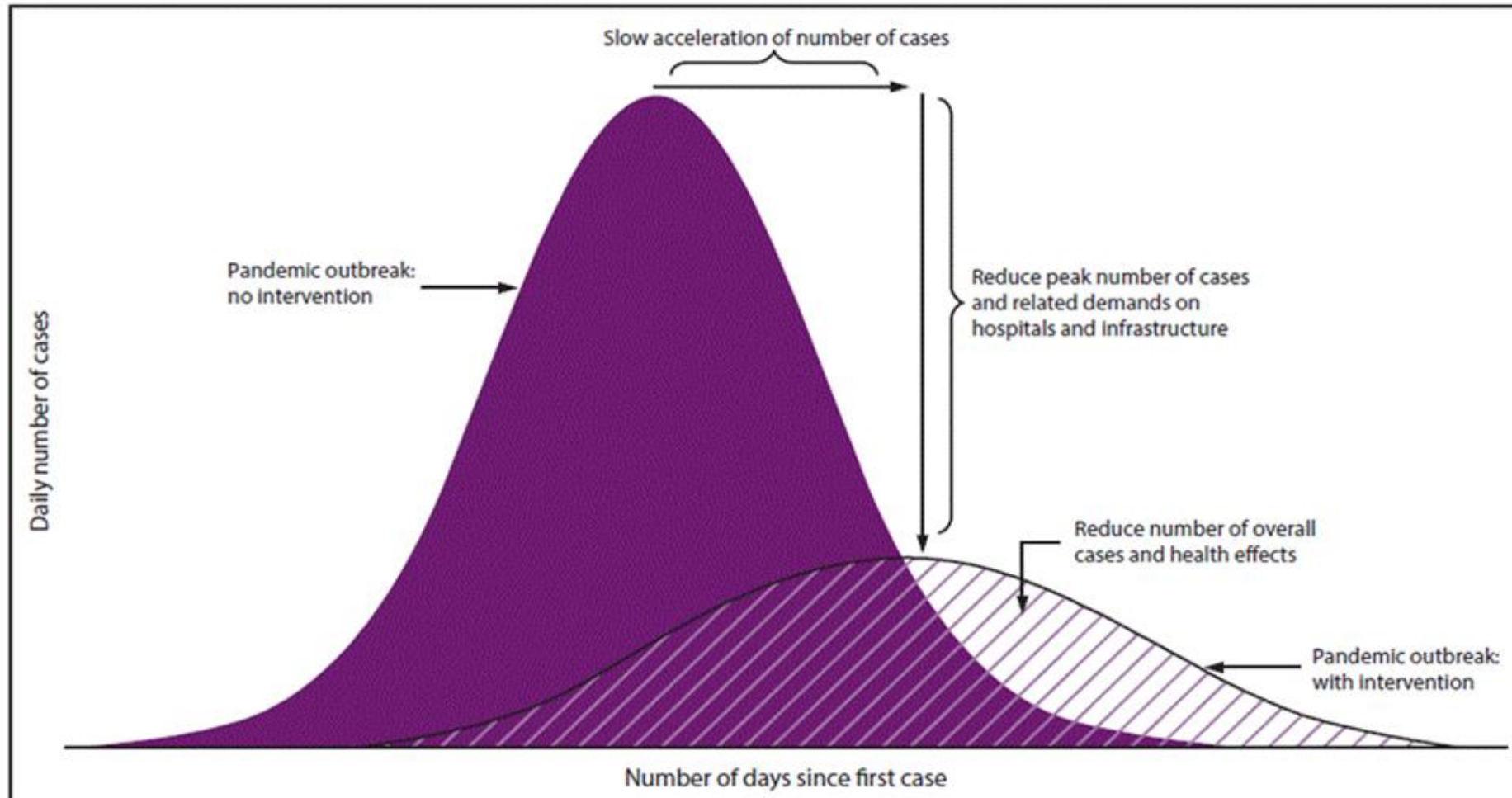
New school outbreaks this week	New school outbreaks last week	Total this season (to date)
35	66	804

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

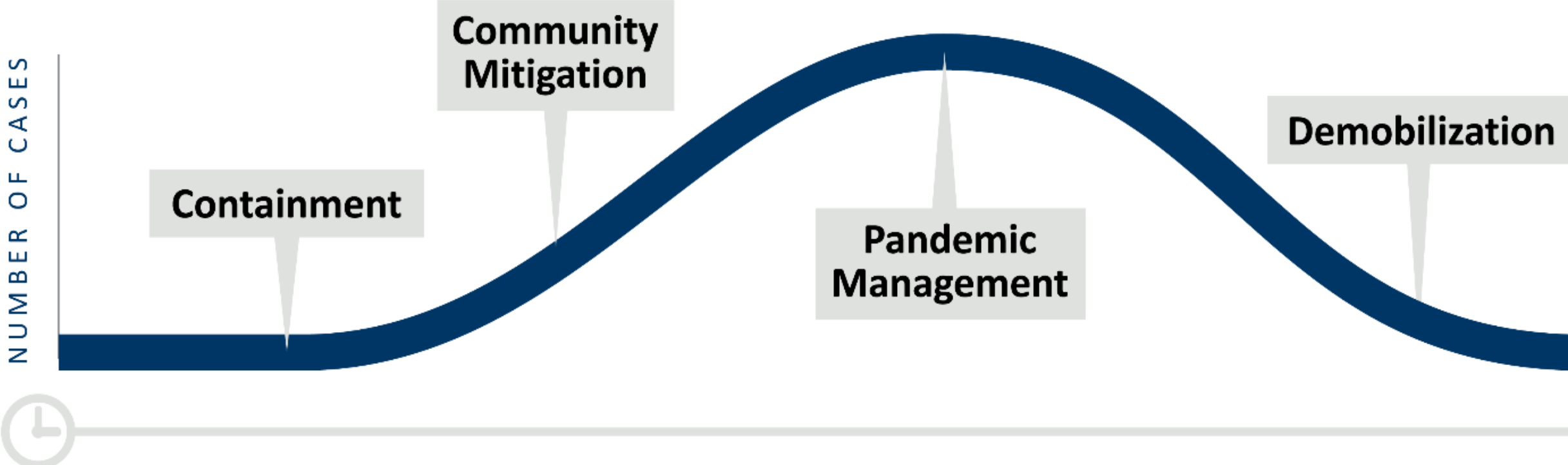
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- We are experiencing widespread activity
- We have had 2,944 hospitalizations to date
- There have been 72 deaths, 2 of them pediatric
- 833 outbreaks of influenza-like illness in K-12 schools
- 75 outbreaks of influenza in LTCF
- The percent of influenza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

Purpose of Pandemic Intervention

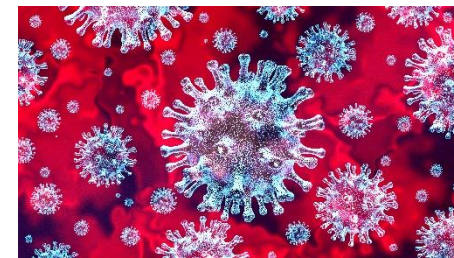


Phases of Pandemic Mitigation



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



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



- 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 activated
- Department of Administration preparing to implement enhanced cleaning protocols

- 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 and CDC guidance
 - Public Health Laboratory testing now online
 - Working closely with hospitals, long-term care facilities, and clinicians; health care coalitions key to planning
 - Community mitigation planning has started and will provide recommendations about public gatherings
 - Also coordinating with MDE and OHE for outreach to schools

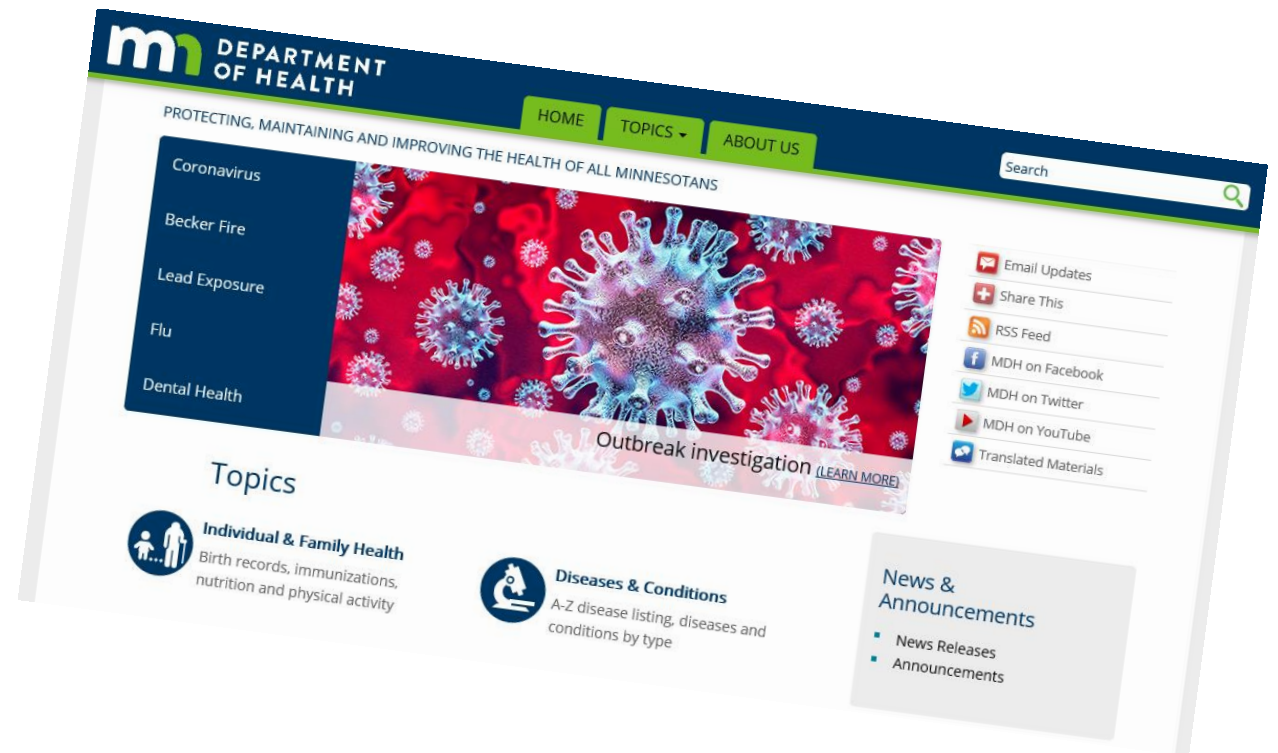
Protective Recommendations for Public

- 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)



Thank You!

Jan Malcolm

651-201-5810

Jan.Malcolm@state.mn.us