

CORONAVIRUS 2019

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DISTRICT HEALTH DEPT. #10



BACKGROUND

- What is coronavirus?
 - Family of viruses – ex. common cold, SARS, MERS
 - Similar, but not the flu (different virus)
 - SARS-CoV-2 (virus)
 - COVID-19 – (disease)
 - Most likely the origin is a bat (betacoronavirus) - but we may never know
- Why the concern?
 - This virus is new (no vaccine)
 - Don't know how bad it will become (illness/fatality rates, healthcare system overwhelmed)
 - Pandemic – just means that the virus is new and widespread (nothing to do with the severity)

WHAT IS THE CURRENT SITUATION?

- Started in Wuhan, China
- Level 3 Travel Notice: China, Iran, Italy, South Korea
- See CDC and MDHHS websites for current World, US, and Michigan numbers
 - Patient Under Investigation (PUI)
 - Travel, contact with confirmed case, showing symptoms, and other diseases ruled out (like flu)
- Some perspective – flu kills 50,000 Americans every year (on average)
- However, COVID 19 may have a higher fatality rate (.1% vs 4%)

SYMPTOMS

- None, mild, severe – varies by person
- Flu like – Fever, Cough, Shortness of breath
- Problem #1 - may cause pneumonia like illness and death
- Problem #2 - person may be infectious before symptomatic
 - Difficult to contain/stop the spread

HOW IS THE VIRUS SPREAD?



RESPIRATORY DROPLETS

- Droplets get in eyes, nose, or mouth
 - From sick person sneezing or coughing
- Droplets on surfaces (like door knobs or gas pumps)
 - Touch that surface and then eat food (need to wash hands)
- Not considered airborne (vs. TB or Measles)
 - Smoke vs. flour example
- Survival on a surface (based on other coronaviruses)
 - Hours to weeks (humidity and temperature dependent)

CLEANING/DISINFECTING

- What product?
 - EPA registered, hospital grade disinfectant
- How often?
 - “Routine cleaning”
 - “Facility Policy”
- Important, but not a fail safe
 - Cleaning reduces exposure by killing/removing viruses
 - However, only effective until next contamination

CURRENT PUBLIC HEALTH RESPONSE

- Airport Quarantine Stations (11 Airports, Detroit Metro is one)
- Traveler Monitoring (not sick)
 - Categorized by risk level – none, low, medium, and high
 - Home quarantine for 14 days – incubation period
 - Health dept. contact twice per day
 - Testing - case by case basis, swab, 4 hour test at MDHHS (eventually local healthcare providers)
- Public Information
 - Media
 - Groups (presentations and meetings)

PUBLIC HEALTH PREPAREDNESS

- Initial measures/recommendations
 - Hand Hygiene and Respiratory Etiquette (see next slide for hand washing)
 - Social Distancing (6 feet and stay home when sick)
 - Masks – currently only for patient care (N-95)
- Mass Clinics (Point of Dispensing)
 - Vaccinations – may be 12 to 18 months out and limited supply
- Public Health Orders
 - Quarantine/Isolation (individual and/or groups)
 - Suspension of mass gatherings

DON'T BE GROSS, WASH YOUR HANDS!



THE CORRECT TECHNIQUE

- Hot or cold water is fine
- Use soap (loosens dirt/virus from skin)
- Scrub for 20 seconds (less may leave viruses)
- When clean, don't touch faucet with hand (use paper towel)
 - Whatever is on the handle is now back on your hand
 - Don't touch door handle either
 - While we're at it – what about the fast food ketchup dispenser and pop machine

RESOURCES

- [DHDIO.org](https://dhdio.org)
- [Michigan.gov/coronavirus](https://michigan.gov/coronavirus)
- [CDC.gov/coronavirus](https://cdc.gov/coronavirus)

SCHOOL SPECIFIC CONSIDERATIONS

- Illness screening - send sick kids home
 - Screen on arrival and during the day as necessary (i.e. teacher notices an ill student)
 - Identify “holding” locations
 - Keep sick kids away from well kids
- School dismissal of kids (staff remain)
- School closure (everybody)
- Prepare for web-based education

ADDITIONAL STEPS

- Confirm/test your notification system and plans (kids, staff, parents)
- Media (provide one, consistent message)
 - Instruct staff not to talk to the media (send media to admin. staff)
 - Collaborate with DHD #10 (joint information releases)
- “Soften” penalties for absenteeism
- Clean/disinfect more often
- Educate students on how to wash hands correctly

ADDITIONAL RESOURCES FOR SCHOOLS

- *Get Your School Ready for Pandemic Flu* <https://www.cdc.gov/nonpharmaceutical-interventions/pdf/gr-pan-flu-ed-set.pdf> and checklist <https://www.cdc.gov/nonpharmaceutical-interventions/pdf/pan-flu-checklist-k-12-school-administrators-item2.pdf>
- *Michigan Schools Pandemic Planning Workbook & Online Toolkit for Educators* <http://mdch.train.org/panflu/education/>
- *Interim Guidance for Businesses and Employers to Plan and Respond to COVID-19* <https://www.cdc.gov/coronavirus/2019-ncov/specific-groups/guidance-business-response.html>
- *Get Your Workplace Ready for Pandemic Flu* <https://www.cdc.gov/nonpharmaceutical-interventions/pdf/gr-pan-flu-work-set.pdf> and checklist <https://www.cdc.gov/nonpharmaceutical-interventions/pdf/pan-flu-checklist-workplace-administrators-item1.pdf>
- *Doing Business During an Influenza Pandemic* <http://www.cidrap.umn.edu/sites/default/files/public/downloads/cidrap-shrm-hr-pandemic-toolkit.pdf>
- www.PrepareMyBusiness.org