

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, Most of Europe – foreigners can't enter US
- 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 and then 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, household grade disinfectant
 - Bleach solution – 1/3 cup of bleach per gallon of water
- 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

- [DHD10.org](https://dhd10.org)
- [Michigan.gov/coronavirus](https://michigan.gov/coronavirus)
- [CDC.gov/coronavirus](https://cdc.gov/coronavirus)

Thank You!

