

Coronavirus

COVID-19

SARS Cov 2

Spring 2020

Carol F Encarnacion, MD, MPH, FACP, Infectious Disease

Tammy Peters, BSN, RN, CIC, Infection Preventionist, Meadville Medical Center

Situation Report
May 11, 2020 AM

Map Source: CDC

Confirmed SARS Cov 2 cases

world : 4,210,318

Deaths: 284,448

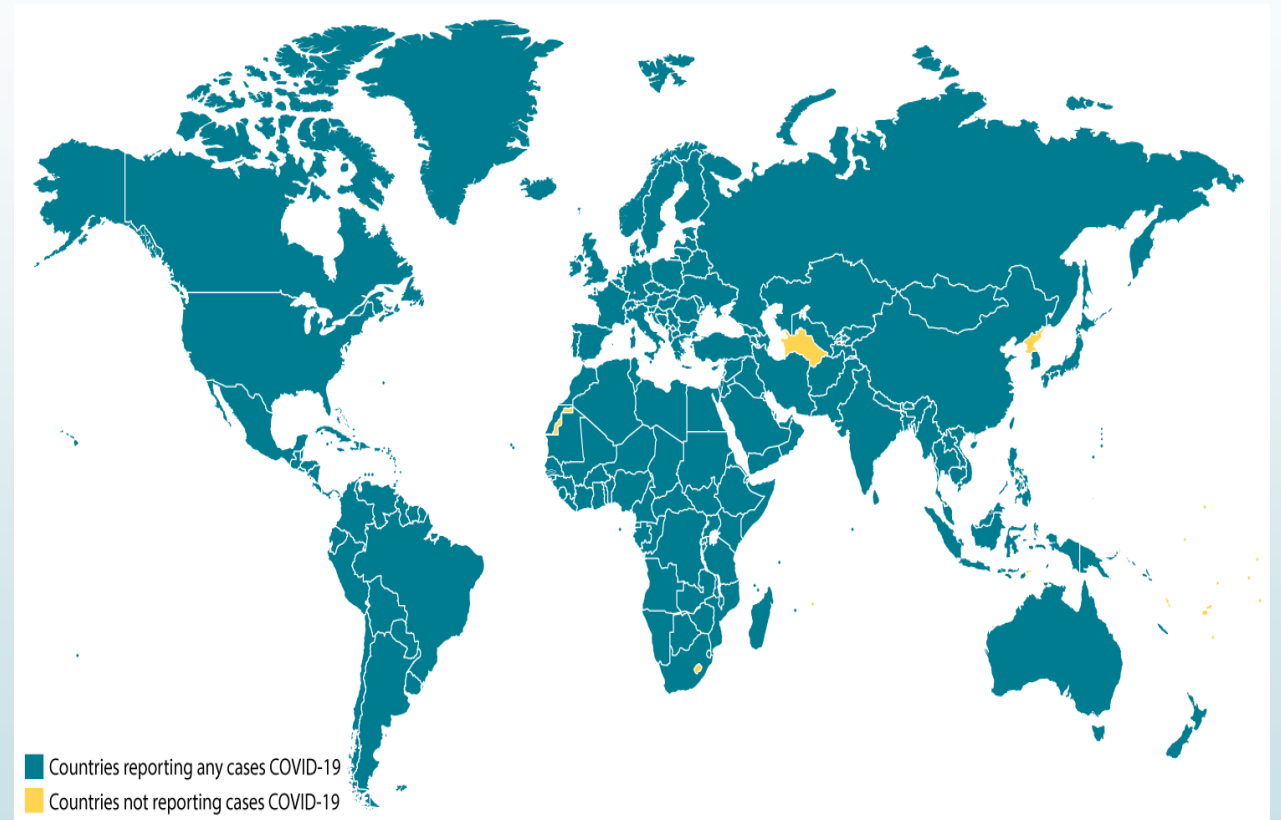
USA: 1.368 million

Deaths: 80,789

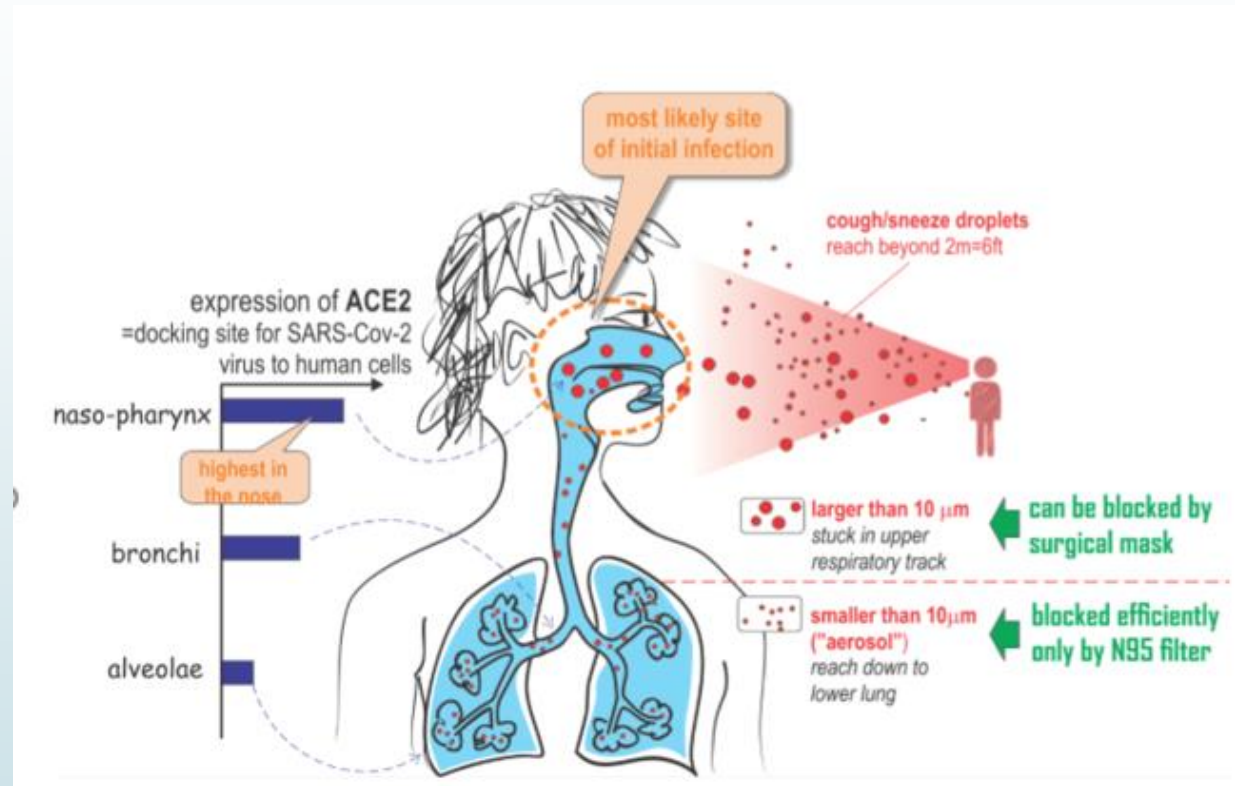
PA: 60, 056

Deaths: 3,823

Source: Worldometer



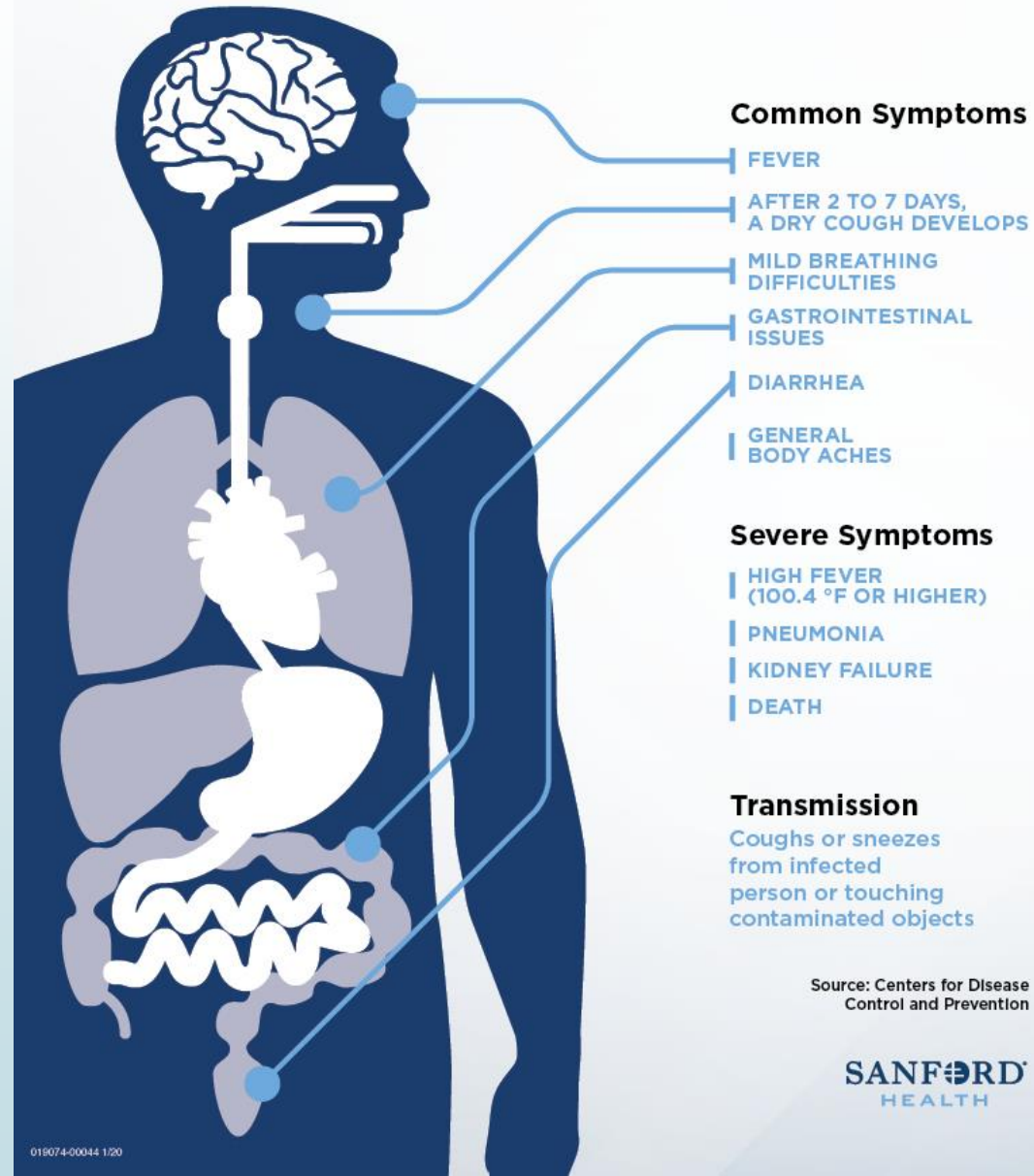
Covid 19/ SARS Cov 2



Source: Sui Huang: medium.com

2019 NOVEL CORONAVIRUS

Coronavirus causes respiratory illnesses



Source: Centers for Disease Control and Prevention

SANFORD
HEALTH

Spectrum of Sars Cov2 Infection

- ▶ Asymptomatic: 2-80%

Those with symptoms

- ▶ Mild Symptoms : 81%
- ▶ Severe (14 %)
- ▶ Critical 5%

Risk Factors for Severe Illness :

Age 65+, Heart Disease, DM, chronic lung disease, Cancer, Chronic kidney disease , Obesity , smoking, HTN

- Recovery

Complete recovery or
with Residual
Complications

- ▶ Death 2.3 %

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Covid 19/ SARS Cov 2

- ▶ Incubation Period: 3-11 days
- ▶ 97% with symptoms 11.5 days

- ▶ Viral transmission: 2 days before Symptoms while symptomatic
- ▶ sputum
- ▶ feces
- ▶ urine

Testing:

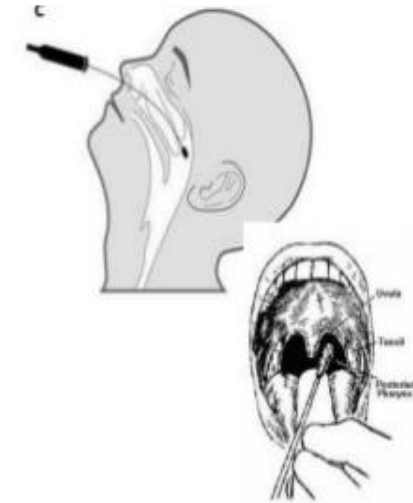
- ▶ Swabs:
 - Nasopharyngeal
 - oropharyngeal
 - nasal
- >Respiratory specimen
 - Sputum
 - Tracheal aspirate
 - Broncheoalveolar lavage
- ▶ Blood antibody tests
- ▶ Covid IgG and IgM)

Appropriate Specimen Types (WHO & CDC)



URT

- **NPS and OPS in VTM/UTM**
- **Nasopharyngeal wash/aspirate**
- **Nasal aspirate**



Refrigerate specimen at 2-8°C up to 72 hours; if exceeding 72 hours, freeze at -70°C and ship on dry ice

Management:

- ▶ Outpatient : Rest, Fluids
- ▶ vitamin/minerals (Vitamin C, Zinc, Vitamin D, melatonin at bedtime)

- ▶ Severe/Hospitalized/ Complications
 1. Supportive: oxygenation/ventilation
 2. Monitor systems: Heart, lungs, kidneys, blood
 3. **No FDA approved drug: Under investigation**
Emergency use authorization
Drugs: Remdesivir
No direct antiviral effect:
hydroxychloroquine
Azithromycin/doxycycline: antibacterial
Tocilizumab
 4. donated Plasma from previously Covid infected people

How does infection occur?

Pathogen
“GERM”

Host
“PERSON”

Route
“ENTRY”

Quantity
“ENOUGH”

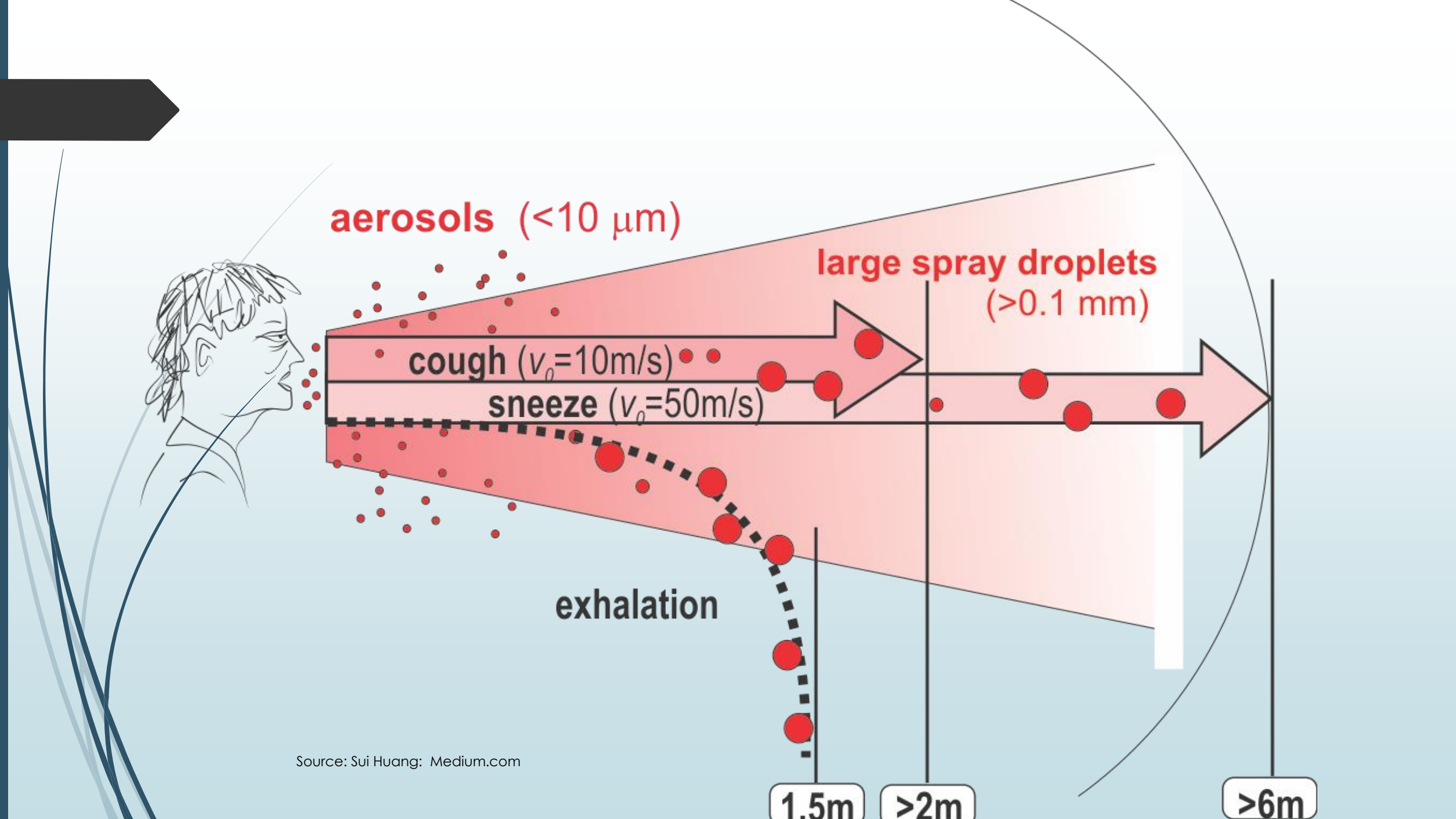


Four parts of infection:

- 1. Pathogen (germ or virus)
- 2. Host (person)
- 3. Route (entry-through the respiratory tract, eyes, nose, mouth)
- 4. Quantity (enough of the pathogen to cause infection)

**If one of these is gone, the infection doesn't occur.

What can we do to stop the infection?



Source: Sui Huang: Medium.com

A dark blue arrow points to the right at the top left. Below it, several thin, curved lines in shades of blue and grey sweep across the left side of the slide.

Stop the infection! Ways.....

- 1. Wash your hands.
- 2. Cover your cough
- 3. Clean and disinfect surfaces.
- 4. Wear a mask.
- 5. Social distancing—6 foot
- 6. Avoid touching the face with hands.
- 7. Vaccinate! (when available)
- 8. Contact tracing



Traditional worship--let's walk through this.....

- ▶ 1. Enter sanctuary---Greeter? Avoid hand shaking. Give a squirt of hand sanitizer as a greeting!
- ▶ 2. Seat placement—could be problematic. Families and household members can sit together---otherwise, 6 foot distance should be honored
- ▶ 3. Books, bulletins and bibles---? Can these be on a projector?
- ▶ 4. Masking? Should be encouraged



Traditional worship--let's walk through this.....

- ▶ 5. Elements—consider creating an individual packet for administering communion
- ▶ 6. Music—praise team and choirs should be 6 foot apart, or consider recorded music.

Singing--Concerns of aerosolization

- ▶ 7. Offering—a box to place the envelopes rather than passing the plate
- ▶ 8. Departing—offer another dollop of sanitizer for the road—and sanitize the sanctuary after use!

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The new normal.....

- Social distancing
- Masking
- Small groups
- Videos/teleconferencing
- Phone calls
- Outside gatherings



Wrap up...or wash up.....😊

- Final notes....
- We are all in this together. Pray...don't panic!
- Keep calm and wash your hands!
- Good resources:
- https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html?CDC_AA_refVal=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-ncov%2Fabout%2Fsymptoms.html
- <https://www.cdc.gov/coronavirus/2019-ncov/community/guidance-business-response.html>
- <https://www.cdc.gov/coronavirus/2019-ncov/community/disinfecting-building-facility.html>