

Public Health and Prevention

Tohono O'odham Nation Health Care

Baboquivari Unified School District
February 11, 2020

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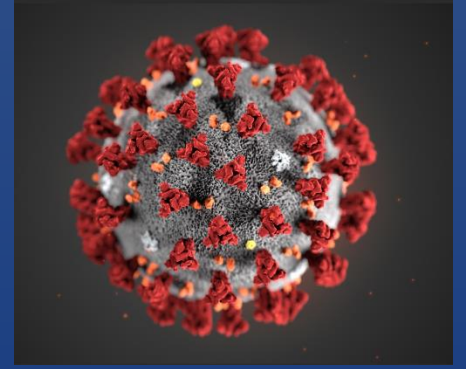
Objectives

- Coronavirus (COVID-19)
- Sexual health in minors
 - Preventing sexually transmitted infections (STI).
- Childhood immunization rates.
- Ask you how we can improve our community's health.



Coronaviruses

Coronavirus Disease (COVID)



- Most coronaviruses cause common cold.
 - Specific kinds infect humans, cats, camels, cattle, bats, and other animals.
 - In humans, the infection is usually most severe in young infants.
- 2003: SARS (Severe Acute Respiratory Syndrome)
 - China: bats to civet cats to people. ~800 deaths
 - Genetic lab tests identify coronavirus in 6 months
 - China develops a surveillance system
- 2012: MERS (Middle East Respiratory Syndrome)
 - Arabia: camels to people. ~2500 deaths by 2019
 - Coronavirus identified in 2 months



COVID-19 (aka 2019-nCoV)

- Dec 31, 2019: China informed WHO of pneumonia of unknown cause in Wuhan City (Hubei Province).
- Coronavirus identified in 2 weeks.
- Jan 2020: China reports >10,000 cases
- Feb 2020:
 - Over 30,000 cases (96% in Wuhan City)
 - >50000 deaths (most in China)
 - >26 countries reporting cases
 - USA with 12 cases
 - 1 case in Arizona (Phoenix)





Total Confirmed

37,592

Confirmed Cases by Country/Region

37,232 Mainland China

64 Others

40 Singapore

32 Thailand

29 Hong Kong

26 Japan

25 South Korea

18 Taiwan

16 Malaysia

15 Australia

14 Germany

13 Vietnam

12 US

11 France

10 Macau

7 Canada

7 United Arab Emirates

Country/Region

City, St/Prov

Last Updated at

2/9/2020 8:03 AM



Total Deaths

814

780 deaths

Hubei Mainland China

1 deaths

Guangdong Mainland China

6 deaths

Henan Mainland China

1 deaths

Hunan Mainland China

1 deaths

Anhui Mainland China

2 deaths

Chongqing Mainland China

1 deaths

Shandong Mainland China

1 deaths

Sichuan Mainland China

2 deaths

Beijing Mainland China

Total Recovered

2,922

1,480 recovered

Hubei Mainland China

201 recovered

Zhejiang Mainland China

186 recovered

Hunan Mainland China

153 recovered

Henan Mainland China

141 recovered

Guangdong Mainland China

73 recovered

Jiangxi Mainland China

72 recovered

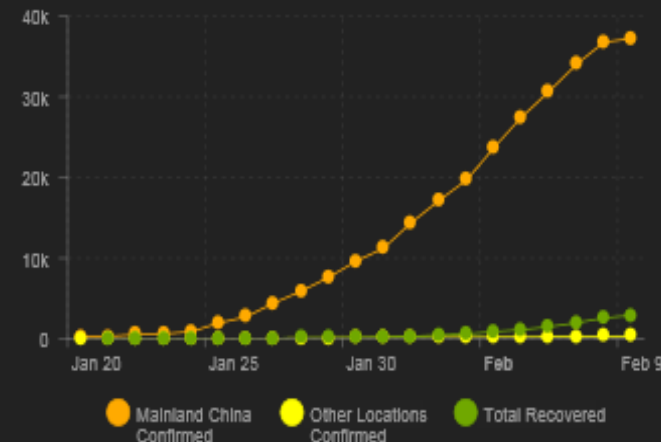
Anhui Mainland China

71 recovered

Jiangsu Mainland China

71 recovered

Sichuan Mainland China



Visualization: [JHU CSSE](#). Automation Support: [Esri Living Atlas team](#).

Data sources: [WHO](#), [CDC](#), [ECDC](#), [NHC](#) and [DXI](#). Read more in this [blog](#). [Contact US](#).

GitHub: [Here](#). Google Sheet: [Here](#). Time series table: [Here](#). Feature layer: [Here](#).

Point level: City level - US, Canada and Australia; Province level - China; Country level - other countries.

Total Confirmed

44,836

Confirmed Cases by Country/Region

44,360 Mainland China
135 Others
49 Hong Kong
47 Singapore
33 Thailand
28 South Korea
26 Japan
18 Malaysia
18 Taiwan
16 Germany
15 Australia
15 Vietnam
13 US
11 France
10 Macau
8 United Arab Emirates
8 UK
7 Canada
3 Italy
3 Philippines
3 India
2 Russia
2 Spain
1 Nepal
1 Cambodia

Last Updated at (M/D/YYYY)
2/11/2020, 5:13:27 PM



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Time Zones: lower-left corner indicator - your local time; lower-right corner plot - Eastern Time (GMT -5).

Total Deaths

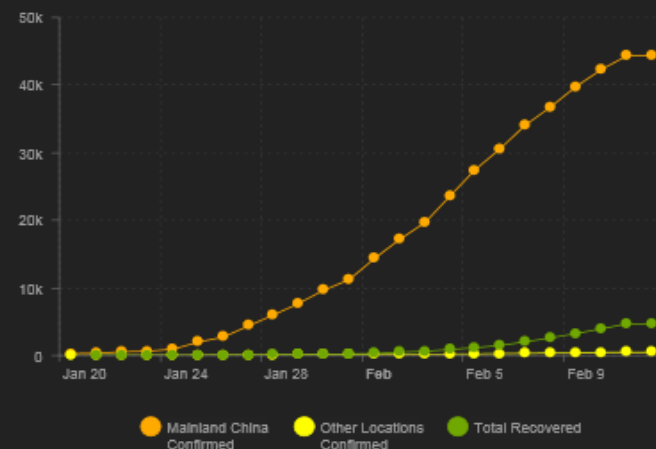
1,113

1,068 deaths
Hubei Mainland China
1 deaths
Guangdong Mainland China
7 deaths
Henan Mainland China
1 deaths
Hunan Mainland China
4 deaths
Anhui Mainland China
1 deaths
Jiangxi Mainland China
3 deaths
Chongqing Mainland China
1 deaths
Shandong Mainland China
1 deaths
Sichuan Mainland China
8 deaths
Heilongjiang Mainland China
3 deaths
Beijing Mainland China
1 deaths
Shanghai Mainland China
2 deaths

Total Recovered

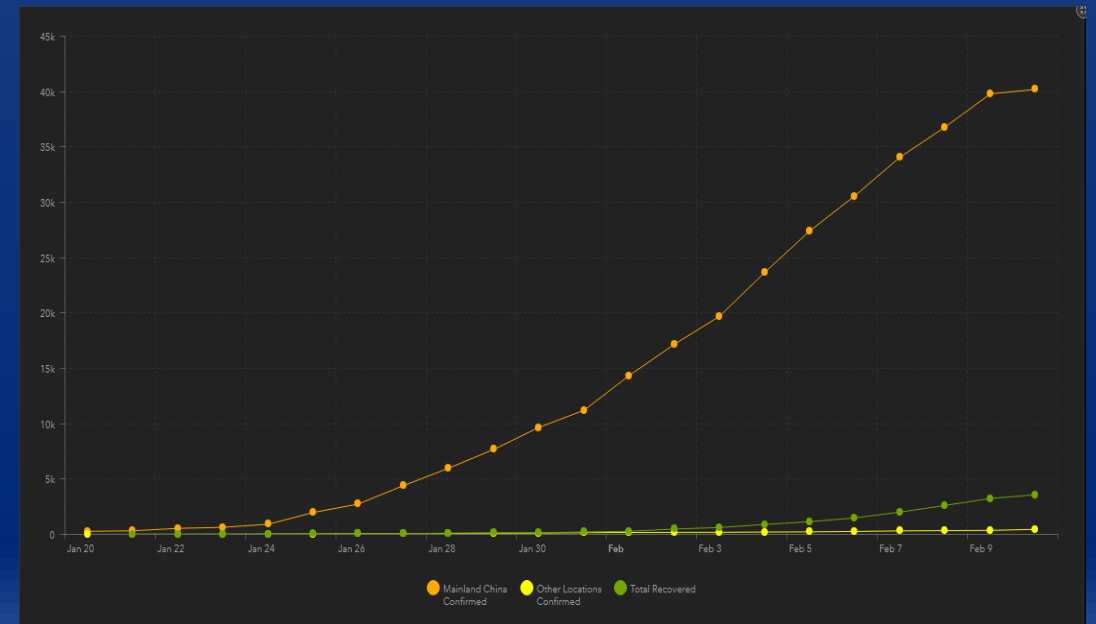
4,686

2,639 recovered
Hubei Mainland China
270 recovered
Zhejiang Mainland China
247 recovered
Hunan Mainland China
218 recovered
Henan Mainland China
212 recovered
Guangdong Mainland China
128 recovered
Jiangxi Mainland China
105 recovered
Anhui Mainland China
93 recovered
Jiangsu Mainland China
85 recovered
Sichuan Mainland China
80 recovered
Shandong Mainland China
79 recovered
Chongqing Mainland China
53 recovered
Shanghai Mainland China
48 recovered



February 10, 2020

- China: >40,000 cases
 - 99% of cases
 - 96% of deaths in Hubei
- ~300 confirmed cases outside China
 - 1 death in the Philippines
- 1 American citizen in China has died
- No deaths among cases in USA
 - All US cases are recovering



Coronavirus (and flu)

- Spreads person-to-person from sneeze and cough droplets.



- Spray of virus goes about 6 feet.
- Virus can live on surfaces for hours.
- Touching surfaces covered with spray can spread the virus.
- Virus lingers on hands.

Testing for COVID-19

- Test persons with fever + cough + difficulty breathing AND
 - travel to China in the last 14 days, or
 - contact with a traveler returned from China in the last 14 days, or
 - Contact with a person who tested positive for 2019-nCoV
- Nose and throat swab
- Looks for virus RNA (PCR test)
- Testing done at CDC
 - Soon to be done at State Health Departments
 - Current routine hospital coronavirus tests are not COVID-19

What to do if concerned about COVID-19?

- Call your clinic or Public Health Department.
- Call before going to a clinic.
 - They need to be ready for your arrival.
- Possible advice from Public Health:
 - If not very ill, stay at home without visitors.
 - Check ups will be done by phone.
 - Sick with difficulty breathing?
 - Wear a surgical mask and wait for instructions.
 - Health care teams should wear N95 masks, gown, gloves, and eye shield to prevent spread.

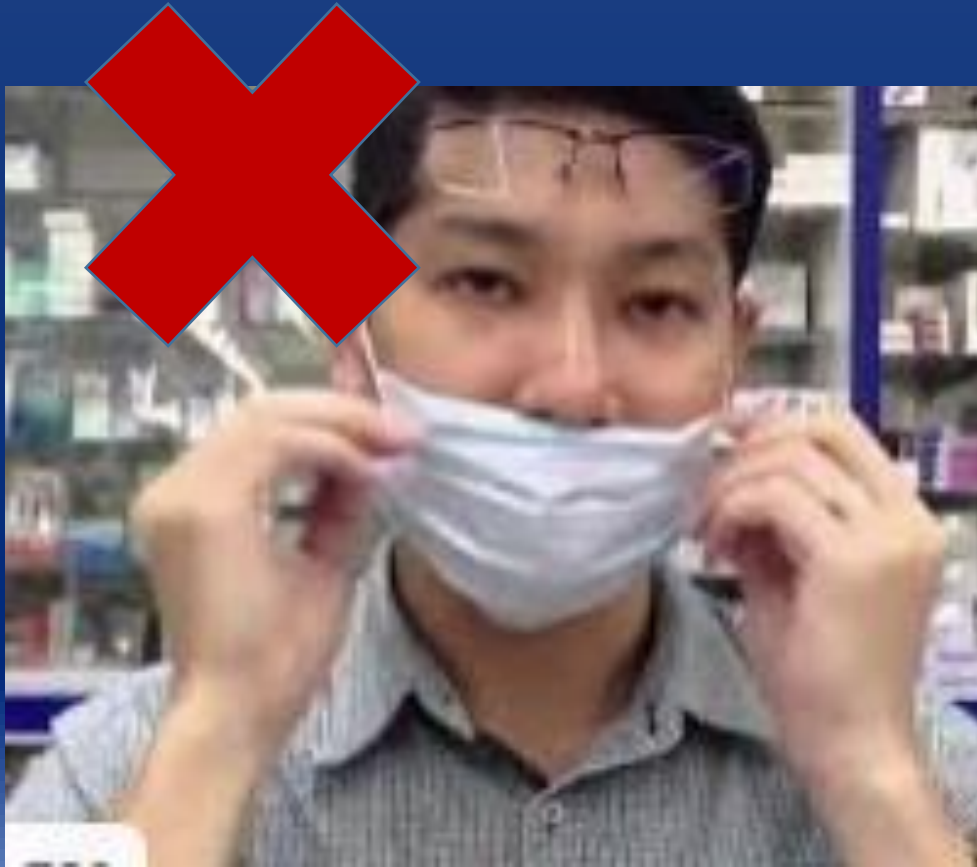
Personal Protective Equipment (PPE): Patients use surgical masks

Goal:

- Prevent cough and sneeze spray.
- Use a **surgical mask**
- Take to a private room (isolation room)
- Stay out of public spaces



WRONG ways to use a mask



Personal Protective Equipment (PPE): Healthcare Staff need to prevent touching virus particles

- Prevent touching infected spray
 - N-95 mask
 - Gown
 - Gloves
 - Eye Shield



How can I prevent COVID-19 and other viruses?

- Cough into your sleeve.
- Cover your cough.
- Wash your hands often with soap and water.
- Prevent influenza
 - Flu has killed >8000 this year in the USA.
- Flu vaccines available
 - No appointment needed!



What are USA Public Health teams doing?

- Sharing information daily
- Conference calls with CDC, State, Tribal, County teams
- Planning and preparation
 - Medical screening at airports
 - Medical support of sick persons
 - Isolation rooms to keep infection from spreading
 - 14 day Quarantine of exposed persons
 - Educating healthcare staff
 - Preparing hospitals and clinics
 - Educating the public

Common Questions

- Is there medicine for coronavirus?
 - No specific medication treatments are known.
 - Most cases are mild and can stay at home.
 - Severe cases need care in hospitals until the body recovers.
- Is there a vaccine?
 - Not yet. You can get your other vaccines like Flu.
- How is coronavirus transmitted?
 - Cough and sneeze droplets. We don't know more yet about: food, stool, urine, other body fluids or sex.