UPDATE: COVID-19 SARS-CoV-2
March 17, 2020
LOUISIANA AS OF 9:30 AM

171 Cases Reported
457 Tests Completed by State Lab
4 Deaths Reported

Parishes with Reported Cases
12 of 64
Total confirmed COVID-19 cases
Because of limited testing the number of total cases is not known, as explained at OurWorldInData.org/Coronavirus
The number of confirmed cases is lower than the number of total cases.

Daily new confirmed cases of COVID-19
Because of limited testing the number of total cases is not known, as explained at OurWorldInData.org/Coronavirus
The number of confirmed cases is lower than the number of total cases.

- Fever: 87.9%
- Dry cough: 67.7%
- Fatigue: 66.3%
- Sputum production: 23.4%
- Shortness of breath: 21.8%
- Muscle pain or joint pain: 14.8%
- Sore throat: 13.9%
- Headache: 13.8%
- Chills: 11.4%
- Nausea or vomiting: 5%
- Nasal congestion: 6.6%
- Diarrhoea: 5.7%

Many of the most common symptoms are shared with those of the flu or cold. So it is also good to know which common symptoms of the flu or the common cold are not symptoms of COVID–19.

COVID–19 infection seems to rarely cause a runny nose.
Coronavirus: early-stage case fatality rates by underlying health condition in China

Case fatality rate (CFR) is calculated by dividing the total number of deaths from a disease by the number of confirmed cases. Data is based on early-stage analysis of the COVID-19 outbreak in China in the period up to February 11, 2020.

- Cardiovascular disease: 10.5%
- Diabetes: 7.3%
- Chronic respiratory disease: 6.3%
- Hypertension: 6%
- Cancer: 5.6%
- No health condition: 0.9%

10.5% of people with a cardiovascular disease who were diagnosed with COVID-19 died.


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Coronavirus: early-stage case fatality rates by age-group in China

Case fatality rate (CFR) is calculated by dividing the total number of deaths from a disease by the number of confirmed cases. Data is based on early-stage analysis of the COVID-19 outbreak in China in the period up to February 11, 2020.

- 0-9 years: 0%
- 10-19 years: 0.2%
- 20-29 years: 0.2%
- 30-39 years: 0.2%
- 40-49 years: 0.4%
- 50-59 years: 1.3%
- 60-69 years: 3.6%
- 70-79 years: 8%
- 80+ years: 14.8%

Children that are infected with the virus appear to be at lower risk of dying.

Older populations are most at risk. 14.8% of people aged 80 or older who were diagnosed died.


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Coronavirus [COVID-19]: the severity of diagnosed cases in China

Descriptions of 44,415 confirmed cases of COVID-19 nationwide in China. Included are confirmed cases in the early period of the outbreak of the disease up to February 11, 2020.

2.3% of all cases died
1,023 of the 44,415 infected people, for which the breakdown is shown on the right, died. The case fatality rate is therefore 2.3%.

5% Critical cases
Critical cases include patients who suffered respiratory failure, septic shock, and/or multiple organ dysfunction/failure.

14% Severe cases
Severe cases include patients suffer from shortness of breath, respiratory frequency > 30/minute, blood oxygen saturation <93%, PaO2/FiO2 ratio < 300, and/or lung infiltrates >50% within 24–48 hours.

81% Mild cases
Mild cases include all patients without pneumonia or cases of mild pneumonia.

Cases that were not identified and not diagnosed


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In the outbreak of an epidemic *early* counter measures are important. Their intention is to ‘flatten the curve’: to lower the rate of infection to spread out the epidemic. This way the number of people who are sick at the same time does not exceed the capacity of the healthcare system.

Development of the pandemic without measures that slow the rate of infection.

Development of the pandemic with measures that slow the rate of infection early after the outbreak.

* The capacity is determined by the number of doctors, nurses, hospital beds, intensive care units and more.
* The capacity can change during an epidemic, for example when healthcare workers might be sick or in quarantine.

Based on the Centers for Disease Control and Prevention.

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MITIGATION STRATEGIES

• Personal
  • Social distancing = at least 6 feet
  • Cough etiquette
  • Frequent hand washing/cleansing
  • Avoid touching face
  • Wipe down surfaces
  • Stay home

• Business/Community
  • Work from home
  • Use email/texting/Zoom/Skype
  • Avoid in-person meetings
  • Use telemedicine
    • Call pts
    • Use patient portal email
    • Outlook email
    • Telemedicine
Bright Spots

• mRNA-1273 vaccine phase 1 trial
  • First dose given yesterday at Kaiser Permanente Washington Health Research Institute in Seattle. National Institutes of Health is funding the trial
  • The open-label trial will enroll 45 healthy adult volunteers ages 18 to 55 years over approximately 6 weeks
  • vaccine directs the body’s cells to express a virus protein that it is hoped will elicit a robust immune response

• Treatment algorithms popping up
  • Hydroxychloroquine x 5 days (or chloroquine)
  • Remdesivir
  • etc.