



2019-nCoV

Daily updates on the emerging novel coronavirus from the Johns Hopkins Center for Health Security.

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January 24, 2020 - Morning Update

EPI UPDATE S China's [National Health Commission](#) is reporting a total of 830 confirmed cases across 29 provinces, including 177 severe cases and 25 deaths (24 in Hubei Province, where Wuhan is located, and 1 in Hebei Province). Another 1072 suspect cases have also been reported. 5 confirmed cases have been reported in Hong Kong (2), Macao (2), and Taiwan (1). Among the 53 cases reported in [Guangdong Province](#) , health officials identified 10 "cluster outbreaks," all among families, which could provide additional insight into the degree to which the 2019-nCoV infection is transmissible among humans.

The [Thailand Ministry of Public Health](#) reported Thailand's 5th case, a 33-year-old woman traveling from China with her daughter (not known to be infected). The patient reportedly has mild symptoms and has been placed in isolation. The [Korea Centers for Disease Control and Prevention](#) (South Korea) confirmed its second case, a man who had been working in Wuhan. The [Japan Ministry of Health, Labour, and Welfare](#) confirmed the country's second case as well, a man who arrived from Wuhan.

In the United States, the [Brazos County](#) (Texas) Health Department announced that they are investigating a suspect case in an individual who recently traveled to Wuhan. Testing is in progress, and the individual has been isolated at home.

WUHAN UPDATES China's [Ministry of Finance](#) has allocated 1B yuan (approximately US\$145M) to support response activities in Hubei Province. Numerous [media reports](#) (many based on an original report in the [Changjiang Daily](#) news) indicate that construction is underway for a new hospital in Wuhan that will have the capacity for 1,000 beds, with the intention of being operational by February 3. A similar effort was implemented during the 2003 SARS response to rapidly construct hospital facilities, including the 1,000-bed Xiaotangshan Medical Center, which was constructed in 7 days. The [Wuhan Municipal Health Commission](#) announced that the city has designated additional 2019-nCoV treatment hospitals in an attempt to manage the growing number of patients seeking care.

ANTI-RETROVIRALS China's National Health Commission reported that [Dr. Wang Guangfa](#), Head of the Department of Pulmonary Medicine at Peking University First Hospital, was infected with 2019-nCoV. In an interview with the [China News Agency](#), he reported being treated with the AIDS anti-retroviral drug lopinavir/ritonavir. He is recovering from the disease, but it is unclear at this time to what extent, if any, the antiviral drug contributed to his treatment.

R0 ESTIMATES [Several preliminary modeling](#) studies based on current incidence data and/or sequence data are estimating an R0 of 1.5-3 for the 2019-nCoV outbreak. This is comparable to SARS and pandemic influenza. The R0 is dependent on a myriad of factors, including the pathogen/disease itself and public health interventions and containment measures, and it will change over the course of the outbreak.

CROWDSOURCED PATIENT DATA [Three sources](#) of [patient-level](#) data have been compiled using publicly available data by scientists not affiliated with the response. These efforts are based on a variety of publicly available information—including from official reports, news media, and social media—and they aim to provide a substitute for official "line list" data, which have not been published publicly.

VIROLOGY DESCRIBED Scientists affiliated with the Chinese Academy of Sciences have posted a [pre-print](#) of genetic analysis of 11 samples of 2019-nCoV from some of the earliest identified patients in the ongoing outbreak. They found that (1) the virus in the same species as SARS-CoV, with 94.6% similarity in amino acid sequence and 80% similarity in nucleotide sequence across the genome; (2) the 2019-nCoV strain was less than 75% homologous to nearly all strains of SARS-CoV in the spike protein; and (3) a single isolate of a bat coronavirus shared 96.7% sequence homology with the 2019-nCoV strain, suggesting 2019-nCoV may have originated in bats and possibly shares a common ancestor with SARS-CoV. Findings also suggest that a PCR diagnostic test could differentiate 2019-nCoV from other coronaviruses. Serological

testing of the patient samples showed strong IgG antibodies specific for 2019-nCoV in specimens collected 20 days after disease onset in 5 of 7 patients.

US SENATE BRIEFING The [US Senate Health and Foreign Relations Committees](#) will jointly host a briefing by federal health officials on the emerging 2019-nCoV outbreak as well as US preparedness and response activities.

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