



Coronavirus (Covid-19)



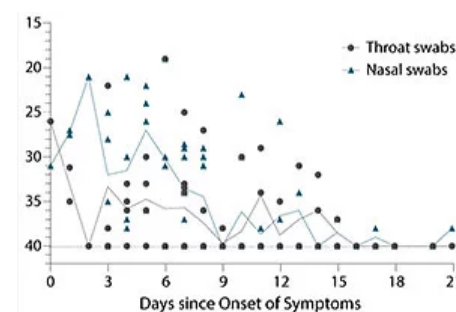
A collection of articles and other resources on the Coronavirus (Covid-19) outbreak, including clinical reports, management guidelines, and commentary.

CORRESPONDENCE

SARS-CoV-2 Viral Load in Upper Respiratory Specimens

L. Zou and Others

The authors report results of an analysis of nasal and throat swabs from 17 patients in Zhuhai, China, who had received a diagnosis of Covid-19. Higher viral loads soon after symptom onset indicate the need for isolation strategies different from those used for the earlier SARS epidemic.



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PERSPECTIVE

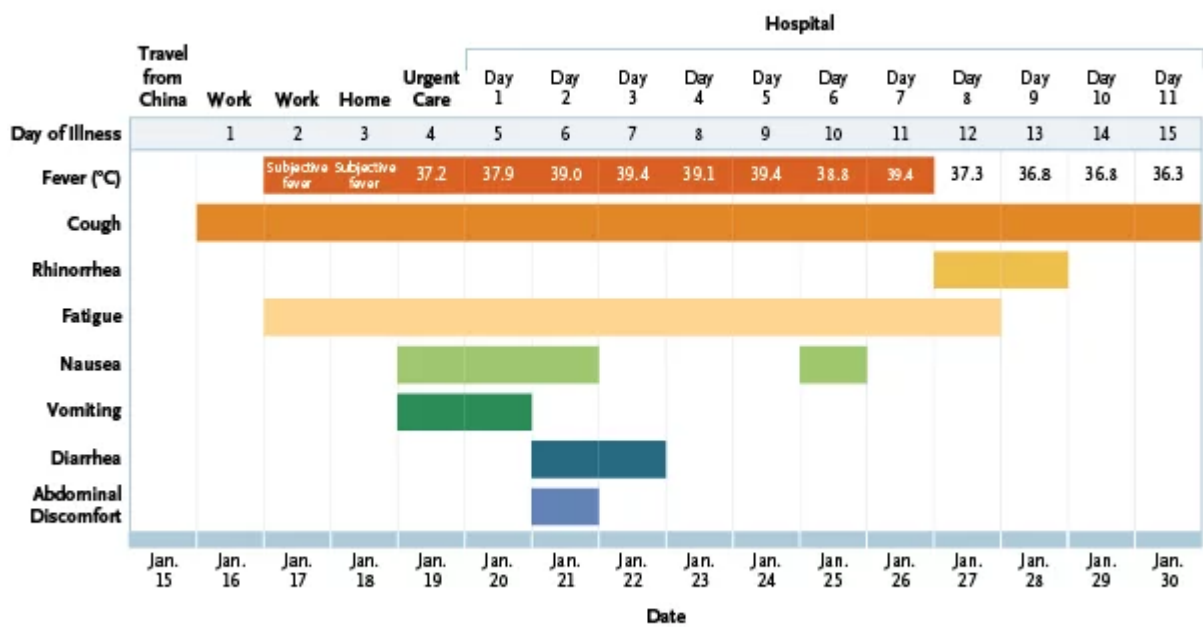
Defining the Epidemiology of Covid-19

M. Lipsitch, D.L. Sverdlow, and L. Finelli

Experience with MERS, pandemic influenza, and other outbreaks has shown that as an epidemic evolves, we face an urgent need to expand public health activities in order to elucidate the epidemiology of the novel virus and characterize its potential impact.

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ORIGINAL ARTICLE
BRIEF REPORT

First U.S. Confirmed Case of 2019-nCoV Infection

M.L. Holshue and Others

A healthy 35-year-old man who had visited Wuhan, China, presented with cough and fever that progressed to pneumonia. This report describes the diagnosis, clinical course, and management of the condition. The case highlights the importance of close coordination between clinicians and public health authorities at the local, state, and federal levels.

[See Also Chinese Translation in NEJM 医学前沿](#)

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JAN 31

CORRESPONDENCE

Coronavirus in Travelers Returning from China

S. Hoehl and Others

A group of 126 German nationals was evacuated from Wuhan to Frankfurt after screening for symptoms of Covid-19 and was to undergo a 14-day quarantine and additional screening in Frankfurt. The authors discovered evidence of SARS-CoV-2 infection in throat swabs from 2 evacuated persons who had passed the symptoms-based screening.

[See Also](#) Chinese Translation in NEJM 医学前沿

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FEB 18

CORRESPONDENCE

A Case of Locally Transmitted SARS-CoV-2 in Taiwan

Y.-C. Liu and Others

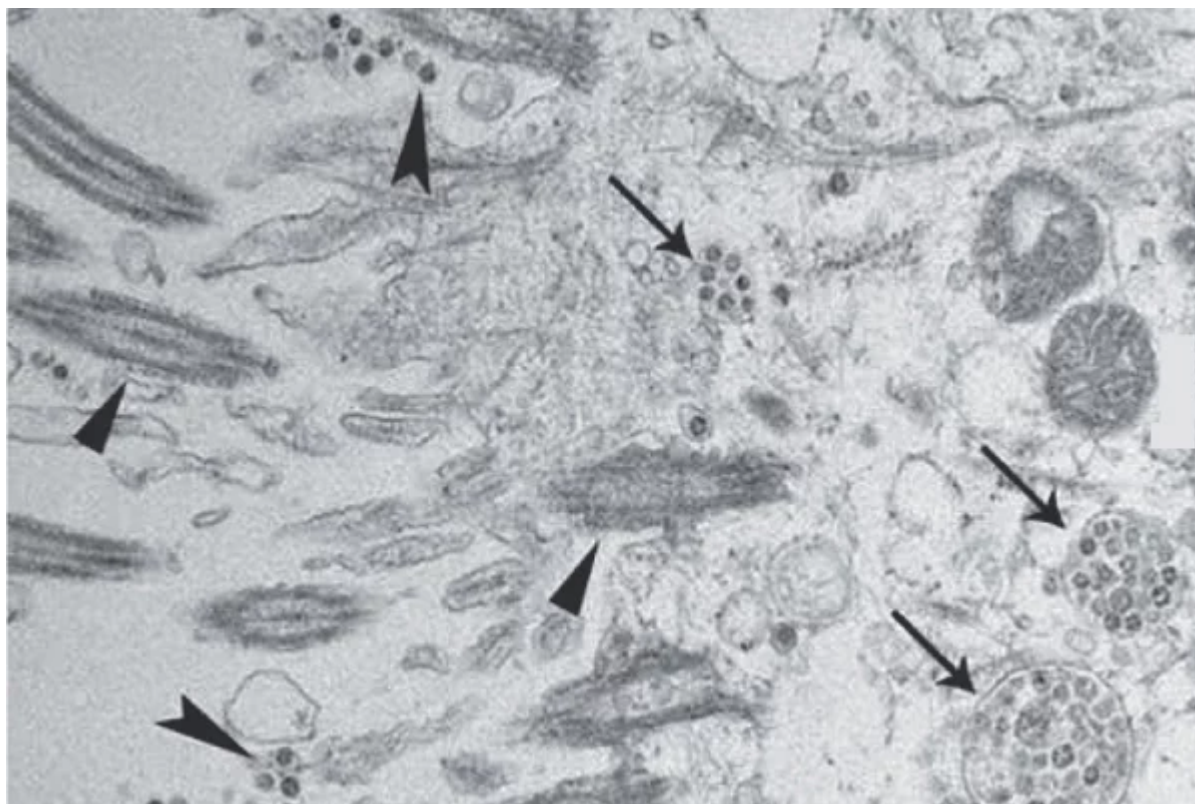
The authors describe transmission of the novel coronavirus from a woman who had been living for several months in Wuhan, China, to her husband, after her return to their home in Taiwan in January 2020. No secondary case from this couple has been identified.



[See Also](#) Chinese Translation in NEJM 医学前沿

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ORIGINAL ARTICLE
BRIEF REPORT

A Novel Coronavirus in China

N. Zhu and Others

The authors report the emergence and isolation of a previously unknown betacoronavirus, the seventh member of the family of coronaviruses that infect humans, in Wuhan, China. Findings in three patients are described.

[Editorial](#) Another Decade, Another Coronavirus

[See Also](#) Chinese Translation in NEJM 医学前沿

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FEB 20

CORRESPONDENCE

A Thai Taxi Driver with Covid-19

W.A. Pongpirul and Others

The authors describe a taxi driver in Thailand who was infected with the novel coronavirus, potentially from passengers who were tourists from China, in January 2020. The infection appeared not to have spread to the taxi driver's family or other close contacts.

[See Also](#) Chinese Translation in NEJM 医学前沿

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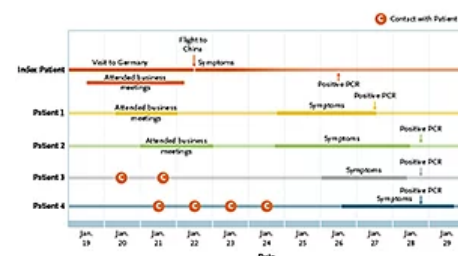
FEB 12

CORRESPONDENCE

2019-nCoV Transmission from Asymptomatic Patient

C. Rothe and Others

In this report, investigators in Germany detected the spread of the novel coronavirus (2019-nCoV) from a person who had recently traveled from China to Germany for a business trip. This transmission occurred before the apparent onset of illness in the index patient and was associated with additional transmission events in Germany.



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JAN 30

CORRESPONDENCE

Human-to-Human Coronavirus Transmission in Vietnam

L.T. Phan and Others

The authors describe transmission of 2019-nCoV from a father, who had flown with his wife from Wuhan to Hanoi, to the son, who met his father and

mother in central Vietnam and shared a hotel room with them for 3 days. The findings suggest that the incubation period in the son may have been 3 days or less.



[See Also Chinese Translation in NEJM 医学前沿](#)

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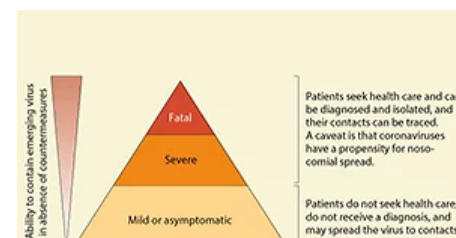
JAN 28

PERSPECTIVE

A Novel Coronavirus Emerging in China

V.J. Munster and Others

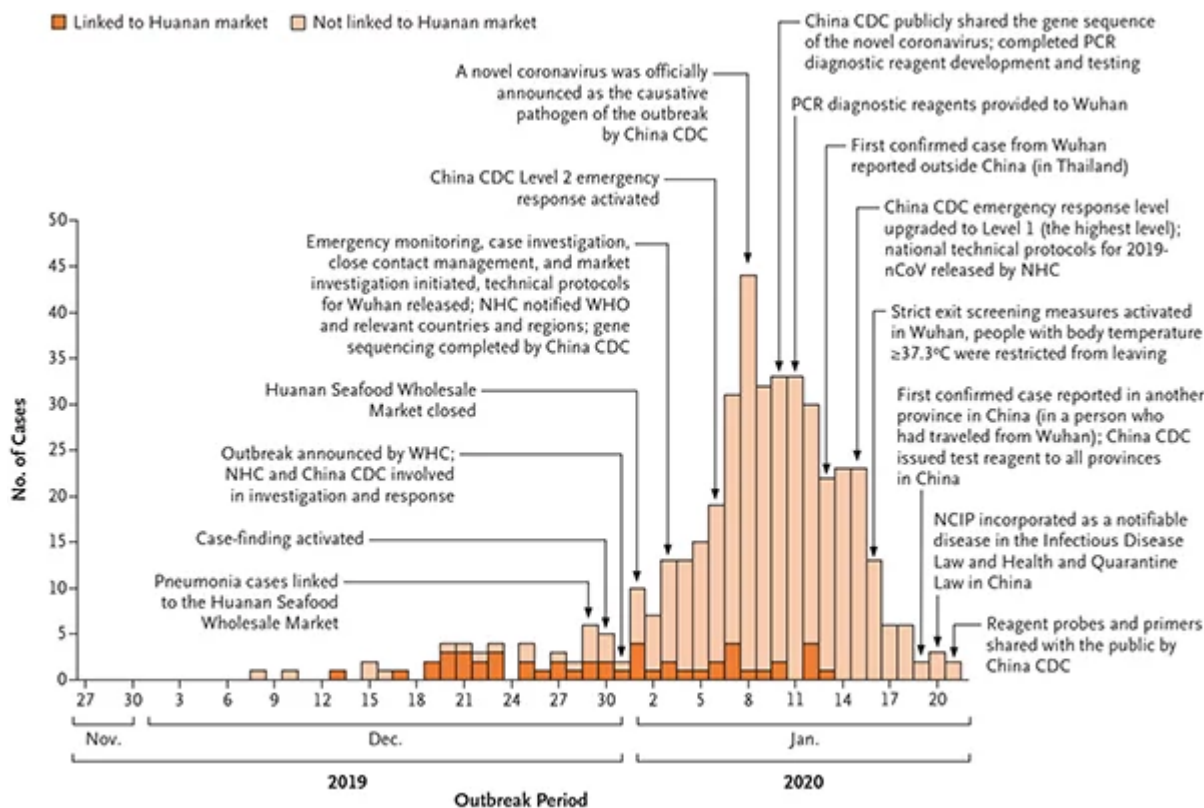
A novel coronavirus, designated as 2019-nCoV, emerged in Wuhan, China, at the end of 2019. Although many details of the emergence of this virus remain unknown, it has put global public health institutions on high alert.



[See Also Chinese Translation in NEJM 医学前沿](#)

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ORIGINAL ARTICLE

Early Transmission Dynamics of 2019-nCoV

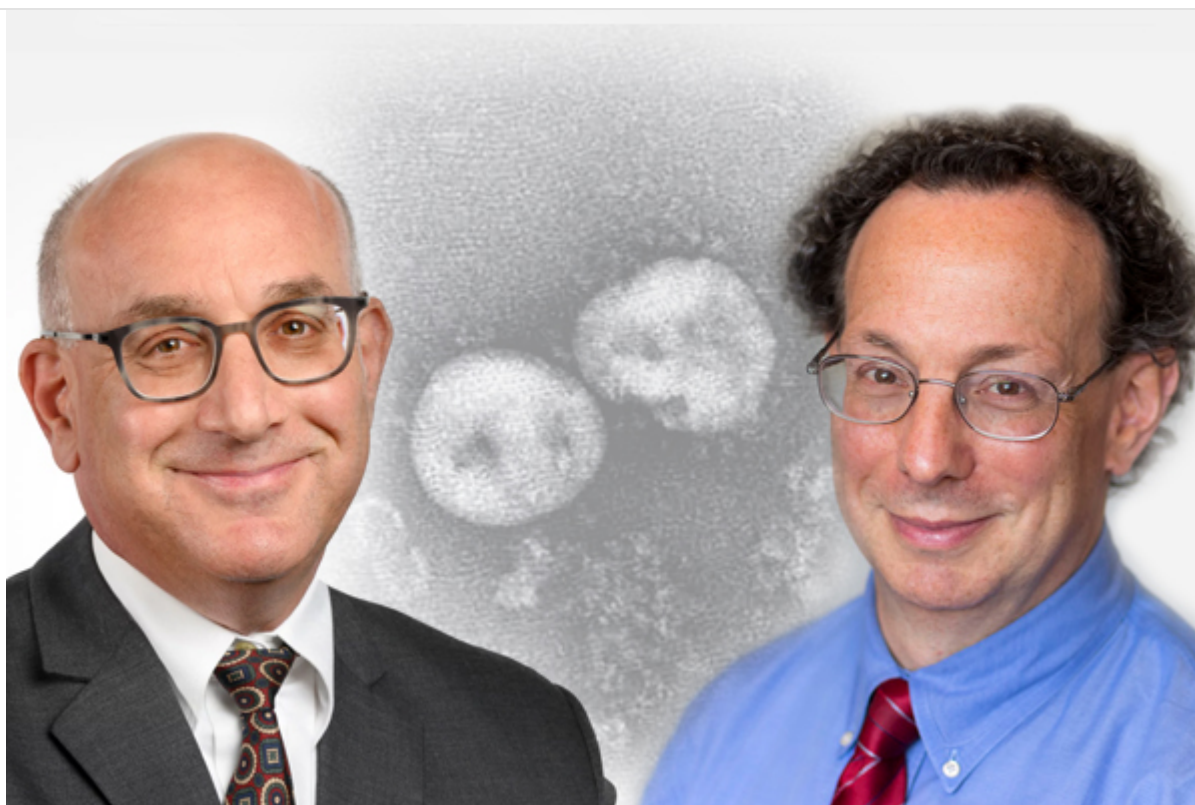
Q. Li and Others

The authors provide an epidemiologic analysis of the first 425 confirmed cases of infection with the novel coronavirus in Wuhan, China. This analysis provides estimates of the epidemic doubling time and the basic reproductive number and shows clear evidence of sustained human-to-human transmission.

See Also Chinese Translation in NEJM 医学前沿

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JAN 29



NEJM Coronavirus Update

Listen to conversations with editors Eric Rubin and Lindsey Baden on the current coronavirus outbreak.





HealthMap of the Coronavirus Outbreak

The HealthMap team from Boston Children's Hospital tracks publicly reported confirmed and suspected cases of 2019-nCoV throughout the world. The map is automatically updated to show current data.





Epidemics Going Viral: Innovation vs. Nature

In April 2018, a group of renowned researchers, clinicians, public health officials, and others with first-hand experience dealing with epidemics explored the complex challenges of global health emergencies, as well as potential solutions. Watch the video.

Resources

World Health Organization

[Novel Coronavirus \(2019-nCoV\)](#)

[Novel Coronavirus Situation Reports](#)

[Advice for Health Care Professionals](#)

[Public Health Advice](#)

Centers for Disease Control and Prevention

[About 2019 Novel Coronavirus \(2019-nCoV\)](#)

[Advice for Health Care Professionals](#)

Chinese Centers for Disease Control

[Tracking the Epidemic](#)

University of Washington HGIS Lab

[Novel Coronavirus Infection Map — Global Trend](#)

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More on Coronaviruses

ORIGINAL ARTICLE AUG 28, 2014

Transmission of MERS-Coronavirus in Household Contacts

C. Drosten and Others

N Engl J Med 2014; 371:828-835

Defining transmission dynamics of the Middle East respiratory syndrome coronavirus (MERS-CoV) is important for public health measures. In this report, potential transmission to household contacts of 26 index patients with MERS-CoV infection is investigated.

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**ORIGINAL ARTICLE** BRIEF REPORT

JUN 26, 2014

Evidence for Camel-to-Human Transmission of MERS Coronavirus

E.I. Azhar and Others

N Engl J Med 2014; 370:2499-2505

The source of Middle East respiratory syndrome coronavirus infection in humans is unclear, although bats and camels are suspected animal reservoirs. In this report, direct transmission of a fatal human case is tightly linked to a camel by epidemiologic, serologic, and virologic data.

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**ORIGINAL ARTICLE** AUG 01, 2013

Hospital Outbreak of Middle East Respiratory Syndrome Coronavirus

A. Assiri and Others

N Engl J Med 2013; 369:407-416

A novel coronavirus (MERS-CoV) is causing severe disease in the Middle East. In this report on a hospital outbreak of MERS-CoV infection, 23 confirmed cases and evidence of person-to-person transmission were identified. The median incubation period was 5.2 days.

Editorial Person-to-Person Spread of the MERS Coronavirus — An Evolving Picture

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**ORIGINAL ARTICLE** BRIEF REPORT

JUN 27, 2013

Family Cluster of Middle East Respiratory Syndrome Coronavirus Infections

Z.A. Memish and Others

N Engl J Med 2013; 368:2487-2494

A novel coronavirus (MERS-CoV) was recently identified as the cause of severe respiratory disease. In this report from Saudi Arabia, a family cluster of infection over a 6-week period is described, suggesting possible limited person-to-person transmission.

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**ORIGINAL ARTICLE** BRIEF REPORT

NOV 08, 2012

Isolation of a Novel Coronavirus from a Man with Pneumonia in Saudi Arabia

A.M. Zaki and Others

N Engl J Med 2012; 367:1814-1820

On June 24, 2012, a 60-year-old man died of progressive respiratory infection in Saudi Arabia. A novel coronavirus was identified as a potential cause of this severe illness. Subsequently, a second patient was reported to have severe illness associated with this coronavirus.

Editorial Emerging Human Coronaviruses — Disease Potential and Preparedness

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ORIGINAL ARTICLE MAY 15, 2003

A Novel Coronavirus Associated with Severe Acute Respiratory Syndrome

T.G. Ksiazek and Others

N Engl J Med 2003; 348:1953-1966

This report summarizes the laboratory studies undertaken to identify the etiologic agent of the worldwide outbreak of the severe acute respiratory syndrome (SARS). In specimens from patients from seven countries, a coronavirus was identified by electron microscopy. The virus is only distantly related to previously sequenced coronaviruses. From serologic studies it appears that this virus has not previously circulated in humans.

Perspective SARS-Associated Coronavirus

Perspective Managing SARS amidst Uncertainty

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ORIGINAL ARTICLE MAY 15, 2003

Identification of a Novel Coronavirus in Patients with Severe Acute Respiratory Syndrome

C. Drosten and Others

N Engl J Med 2003; 348:1967-1976

This study used cell culture and molecular techniques to identify the infectious agent associated with SARS. A novel coronavirus was found in multiple samples from 18 patients but in no specimens from control subjects. In the patients there were high concentrations of viral RNA in sputum, a finding consistent with a highly infectious agent. Low concentrations of viral RNA were also detected in stool.

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ORIGINAL ARTICLE MAY 15, 2003

A Cluster of Cases of Severe Acute Respiratory Syndrome in Hong Kong

K.W. Tsang and Others

N Engl J Med 2003; 348:1977-1985

This report describes 10 epidemiologically linked patients in Hong Kong in whom SARS was diagnosed between late February and late March. They presented with fever, cough, malaise, dyspnea, and hypoxemia. Chest radiographs showed progressive airway disease. In the two patients who died, examination of the lungs showed diffuse alveolar damage.

Editorial Case Clusters of the Severe Acute Respiratory Syndrome

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ORIGINAL ARTICLE MAY 15, 2003

A Major Outbreak of Severe Acute Respiratory Syndrome in Hong Kong

N. Lee and Others

N Engl J Med 2003; 348:1986-1994

Over a period of two weeks at a hospital in Hong Kong 69 patients and 69 health care workers were admitted to isolation wards because of SARS. Thirty-two of those with SARS required intensive care, and five died. This report describes the clinical and radiologic features of SARS, and it analyzes the predictors of a poor outcome.

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Journal Watch Summaries

FEBRUARY 21, 2020

Spread of SARS-CoV-2 Infection

FEBRUARY 11, 2020

2019 Novel Coronavirus: New Clinical Insights

FEBRUARY 6, 2020

Genomic Characterization of the 2019 Novel Coronavirus

FEBRUARY 3, 2020

Asymptomatic 2019-nCoV Transmission in Germany, and First U.S. Case Described

JANUARY 31, 2020

Clinical Characteristics of 2019 Novel Coronavirus Infection

JANUARY 30, 2020

Transmission of the Novel Coronavirus: Early Findings

JANUARY 27, 2020

2019 Novel Coronavirus: First Reports Published

